

TOSHIBA

OWNER'S MANUAL

Projection Television

TE50T11

TE55T11

Owner's Record

The model number and serial number are on the back of your TV. Record these numbers in the spaces below. Refer to these numbers whenever you communicate with your Toshiba dealer about this TV.

Model number:

Serial number:

Introduction

Connecting
your TV

Using the
Remote Control

Setting up
your TV

Using the TV's
Features

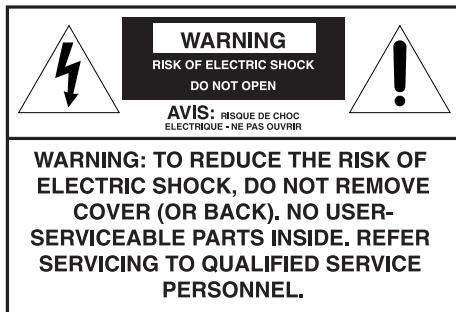
Appendix

Index

Important Information

WARNING

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.



The lightning symbol in the triangle tells you that the voltage inside this product may be strong enough to cause an electric shock. **DO NOT TRY TO SERVICE THIS PRODUCT YOURSELF.**



The exclamation mark in the triangle tells you that important operating and maintenance instructions follow this symbol.

CAUTION

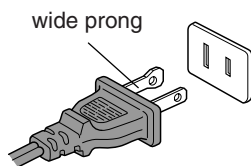
TO PREVENT ELECTRIC SHOCK, DO NOT USE THIS POLARIZED PLUG WITH AN EXTENSION CORD RECEPTACLE OR OTHER OUTLET UNLESS THE PRONGS CAN BE FULLY INSERTED INTO THE OUTLET TO PREVENT ANY EXPOSURE OF THE PRONGS ON THE POLARIZED PLUG.

ATTENTION

POUR PRÉVENIR LES CHOCES ÉLECTRIQUES NE PAS UTILISER CETTE FICHE POLARISÉE AVEC UN PROLONGATEUR, UNE PRISE DE COURANT OU UNE AUTRE SORTIE DE COURANT, SAUF SI LES LAMES PEUVENT ÊTRE INSÉRÉS À FOND SANS EN LAISSER AUCUNE PARTIE À DÉCOUVERT.

CAUTION

The plug has one prong wider than the other and will fit only one way into a standard electrical outlet (120 volt AC, 60 Hz). If the plug does not fit into the outlet, try turning it around. If the plug still does not fit, the outlet is probably non-standard and must be replaced by a qualified electrician. Do not tamper with the plug or try to force it into a non-standard outlet.



Note to CATV system installers in the USA

This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC, which provides guidelines for proper grounding, and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

Precautions

Installing your TV

- Place the TV on the floor or on a sturdy platform. The mounting surface should be flat and steady. If you install the TV on a soft floor, make sure that the floor is not damaged by the weight of the TV.
- Place the TV far enough away from the walls to allow proper ventilation. This will prevent the TV from overheating and avoid possible damage to the TV. Avoid dusty places too.
- Damage may occur if you leave the TV in direct sunlight or near a heater. Avoid places subject to extremely high temperatures or humidity, and temperatures of 41°F(5°C) or lower.

Using your TV

- Do not stand or climb on the TV.
- Do not put any heavy object on top of the TV.
- Do not place containers with liquids such as drinks or cosmetics on the TV. If any foreign material or water leaks into the TV, unplug the AC cord and contact your dealer.
- If the room temperature suddenly rises, condensation may occur on the lenses resulting in picture distortion or color fading. In such a case, simply wait a while (with the power on) and the condensation will evaporate.
- Avoid displaying stationary images on your TV screen for extended periods of time. Stationary patterns generated by a picture-in-picture (PIP) display, computer displays, video games, stock market reports, etc., can become permanently engrained on the picture tube. This damage is not protected by your warranty because it is the result of misuse. If you wish to use your TV to display still images, reduce brightness and contrast settings. Never leave a PIP, computer, or video game display unattended.
- Sit approximately 10-25 feet away from the TV. Sitting too far to the left or right of the screen will cause the picture to appear dull as will direct sunlight and room lights. Turn the TV off to check for reflections on the screen. Then remove the source of any reflections while viewing.

Cleaning your TV

- Clean the TV with a soft dry cloth. Never use strong solvents such as thinner or benzine which might damage the finish of the cabinet. If the cabinet is very dirty. Use a damp cloth to wipe the cabinet clean, then finish with a dry cloth.

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Introduction

Welcome to Toshiba

Congratulations! You have purchased one of the finest projection TV's on the market. The goal of this manual is to guide you through setting up and operating your Toshiba TV as quickly as possible.

This manual applies to models TE50T11 and TE55T11.

Before you start reading, check your model number by looking at the rear of the TV.

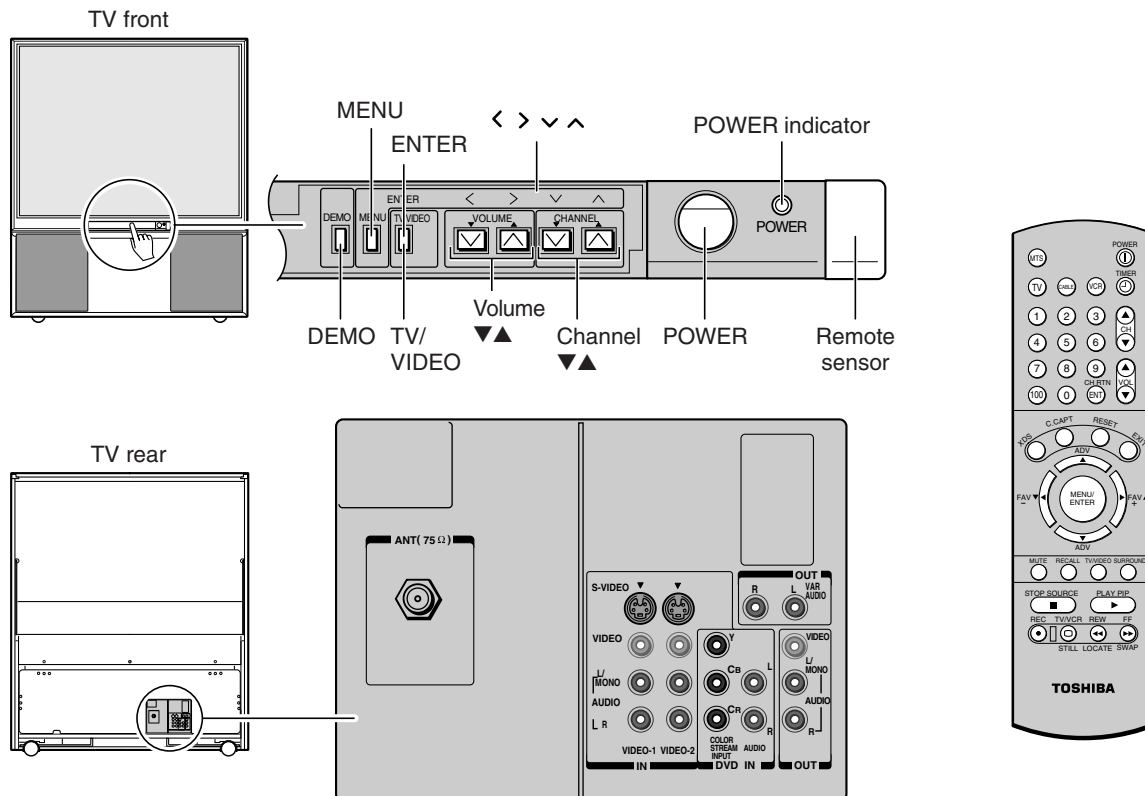
The TE55T11 is the model used for illustration purposes.

Instructions in this manual are based on using the remote control. You can also use the controls on the TV if they have the same name as those on the remote control.

Please read all the safety and operating instructions carefully, and keep the manual for future reference.

Exploring your new TV

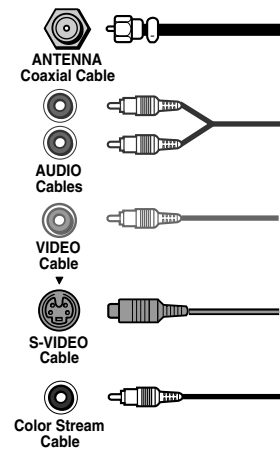
You can operate your TV by using the buttons on the front panel or the remote control. The back panel provides all the terminal connections you will need to connect other equipment to your TV. The ColorStream inputs are only for TE55T11.



Connecting your TV

If you haven't connected electronic equipment before, or you have been frustrated in the past, you may wish to read this section. (Cables are not supplied.)

- A coaxial cable is the standard cable that comes in from your antenna or cable converter box. Coaxial cables use "F" connectors.
- Audio and video cables are usually color coded according to use: yellow for video and red and white for audio. The red audio cable is for the stereo right channel, and the white audio cable is for the stereo (or mono) left channel. If you look at the rear panel of the TV, you will see that the terminals are color coded in the same manner as the cables.
- S-video cables provide better picture performance. S-video cables can only be used with S-video compatible components.
- ColorStream™ cables come in sets of three and provide the best picture performance. ColorStream cables can only be used with ColorStream compatible components.



Caution:

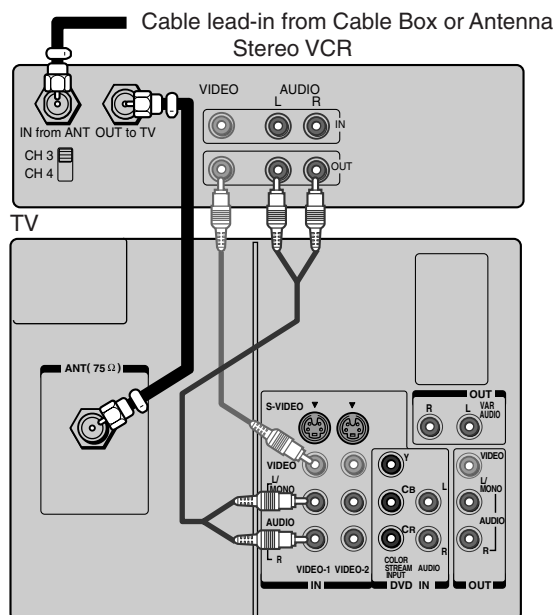
Do not plug the TV in until you have finished connecting all of your equipment.

Connecting a VCR

This connection allows you to watch local channels and video programs, play or record on the VCR while watching TV, and to record from one channel while watching another channel.

You will need:

- one coaxial cable
- one pair of audio cables (only one cable for a mono VCR)
- one video cable



Caution:

If using a mono VCR, connect L/Mono to VCR Audio OUT using only one audio cable.

If you have a S-VHS VCR, use the S-video connections and remove the video cable.

Do not connect the video cable and the S-video cable to Video-1 simultaneously.

Note:

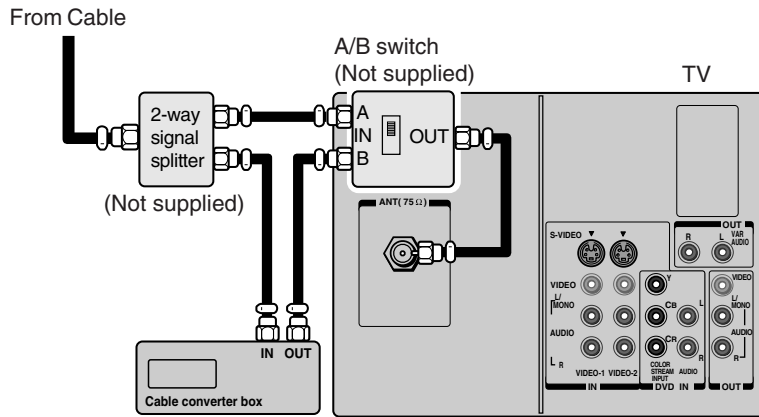
You can also use the Video-2 inputs for connecting video components such as a camcorder, laserdisc player etc.

Connecting a cable converter box

This connection allows you to watch cable and premium channels. You should place the A/B switch in the “A” position so that you can use the TV features. When viewing premium channels, switch to “B” and tune the TV to channel 3 or 4 (whichever channel is vacant in your area), then use the converter box to change channels.

You will need:

- one two-way signal splitter (Not supplied)
- one A/B switch (Not supplied)
- four coaxial cables



Note:

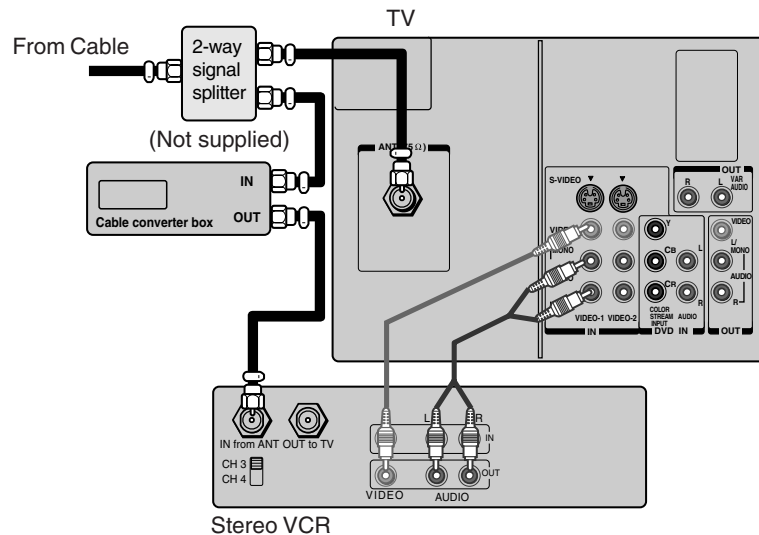
When you use a converter box with your TV, there may be features that you can not program using the remote control, such as programming your favorite channels, labeling channels, and blocking channels.

Connecting a cable converter box and a VCR

This connection allows you to watch and record basic and premium cable channels, as well as watch videotapes. You should keep your TV selected to TV so that you can use the TV’s features. When viewing premium channels or recording with the VCR, select Video 1 (page 32), turn on the VCR and set the channel to 3 or 4 (whichever channel is vacant in your area), then use the cable converter box to change channels. To watch a basic cable channel while recording with the VCR, the TV should be left in TV mode.

You will need:

- one two-way splitter (Not supplied)
- three coaxial cables
- one pair of audio cables (only one cable for a mono VCR)
- one video cable



Caution:

If you have a mono VCR, connect L/Mono to VCR Audio OUT using only one audio cable.

If you have a S-VHS VCR, use the S-video connections and remove the video cable. Do not connect the video cable and the S-video cable to Video-1 simultaneously.

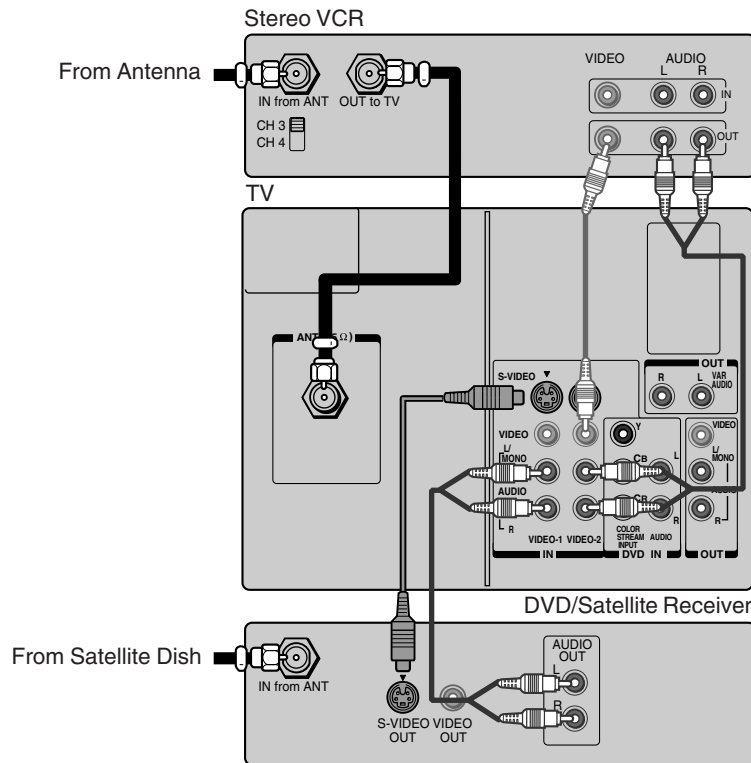
When you use a converter box with your TV, there may be features that you can not program using the remote control, such as programming your favorite channels, labeling channels, and blocking channels.

Connecting a DVD/satellite receiver and a VCR

This connection allows you to watch DVD/satellite, video and TV programs. You can record one TV channel while watching another channel.

You will need:

- one coaxial cable
- two pairs of audio cables (only one cable for a mono VCR)
- one video cable
- one S-video cable



Caution:

You can use a video cable instead of the S-video cable, but the picture quality will decrease. If you use a S-video cable between the TV and DVD/satellite receiver, make the audio connections only and remove the video connection.

Do not connect the video cable and the S-video cable to Video-1 simultaneously.

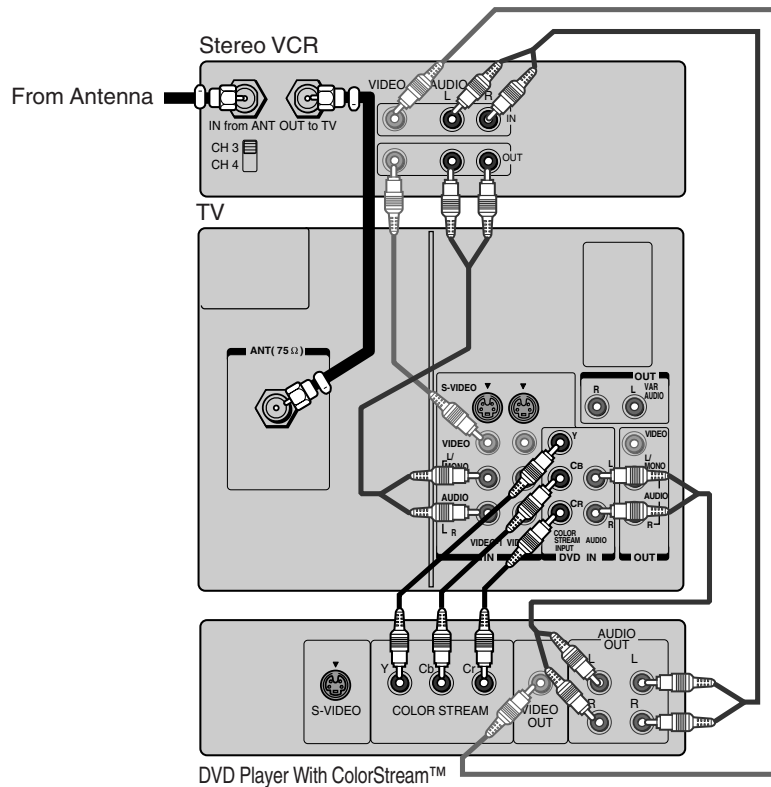
The unauthorized recording of television programs, video tapes and other materials may infringe upon the provisions of copyright laws.

Connecting a DVD with ColorStream™ and a VCR (for TE55T11 only)

This connection allows you to watch DVD, video or TV programs and to record DVD or TV programs. You can record from one source and watch a program from another source. Your TV is capable of using ColorStream (component video). Connecting your TV to a ColorStream compatible DVD, such as a Toshiba DVD, can greatly enhance picture quality and performance.

You will need:

- one coaxial cable
- three pairs of audio cables (only one cable for a mono VCR)
- two video cables
- one set of ColorStream video cables



Caution:

To play from the DVD, the DVD and TV must use ColorStream connections. To record from the DVD, the DVD and TV must select Video.

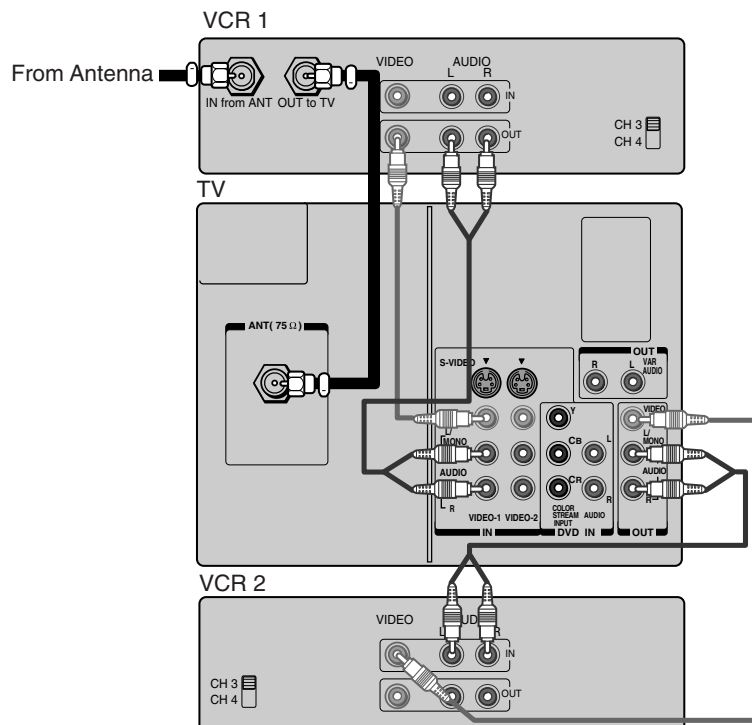
The unauthorized recording of television programs, video tapes and other materials may infringe upon the provisions of copyright laws.

Connecting two VCRs

This connection allows you to record (dub/edit) from one VCR to another VCR while watching a video program. You will also be able to record from one TV channel while watching another channel.

You will need:

- one coaxial cable
- two pairs of audio cables (only two cables for mono VCRs)
- two video cables



Caution:

Do not connect one VCR to the output and input jacks on the TV at the same time. If you are using a S-VHS VCR, use the S-video connections and remove the video cable. Do not connect the video cable and the S-video cable to Video-1 simultaneously.

The unauthorized recording of television programs, video tapes and other materials may infringe upon the provisions of copyright laws.

Note:

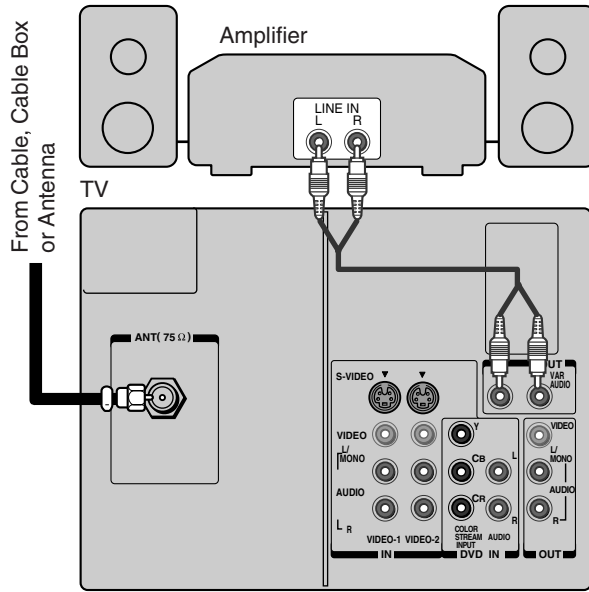
To dub or edit VCR 2 must select Line IN, and the TV must select Video-1.

Connecting an audio system

This connection allows you to use an audio amplifier to adjust the audio level. This also allows you to use external speakers.

To control the audio, turn on the TV and the stereo amplifier, then turn off the built-in speakers. (See “Turning off the built-in speakers” on page 38.)

You will need one pair of audio cables.



Using the remote control

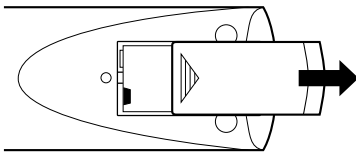
Preparing the remote control for use

With the remote control, you can operate your TV, most VCR models, and cable TV converters together, even if they are different brands. If you will be using your TV with a Toshiba VCR, your remote control is already programmed and ready to use. If you own different brands of VCRs and/or converters, you first have to program your remote control. (See “Programming the remote control for use with a VCR or a cable TV converter” on page 11.)

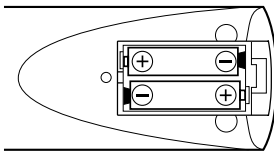
Installing the remote control batteries

To install the batteries:

1. Slide the battery cover off of the back of the remote control.



2. Install two “AA” size batteries. Match the + and - signs on the batteries to the signs on the battery compartment.



3. Slide the battery cover back on to the remote control until the lock snaps.

Using the remote control with a VCR or a cable TV converter

To control a Toshiba VCR:

Press the VCR button until it blinks. The shaded buttons shown on the right will then control the VCR. The rest of the buttons will operate the TV as usual.

If you own different brands of VCRs, program the remote control to recognize the brand of your VCR. (See “Programming the remote control for use with a VCR or a cable TV converter” on page 11.)

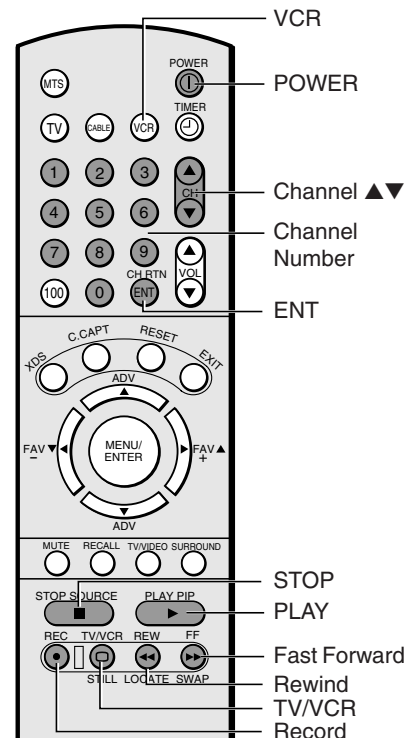
Note:

This remote control’s functions may or may not operate your VCR or cable TV converter.

Refer to the owner’s manuals supplied with the equipment to see which features are available. In addition, the original controllers may have features not available on this remote control. If you would like to continue to use these features, you may want to use the original remote control.

Caution:

- Dispose of your batteries in a designated disposal area. Do not throw your batteries into a fire.
- Do not mix battery types or combine used batteries with new ones.
- Remove dead batteries immediately to prevent battery acid from leaking into the battery compartment.
- If you do not intend to use the remote control for a long time, remove the batteries.



To control a cable TV converter:

Program the remote control to recognize the brand of your converter. The shaded buttons shown on the right will control the cable TV converter.

Press the CABLE button whenever you control the cable TV converter.

Programming the remote control for use with a VCR or a cable TV converter

This remote control is pre-programmed to operate Toshiba VCRs. To use VCRs or cable converters other than Toshiba models, you must follow the steps below before you operate your remote control.

1. Refer to the “VCR code table” or “Cable TV converter code table” on pages 12-13 to find the number that corresponds to the brand name of your VCR or converter.
If more than one number is listed, try each one separately until you find the one that works.
2. Turn on the device (VCR or converter) you wish to program the code.
3. Press the matching device button “VCR” (or “CABLE”) and ENT at the same time. The device button will be illuminated by the back-light to indicate that it is in the program mode. Perform the following steps while the back-light is on (about 20 seconds).
4. Point the remote control toward the VCR (or converter) and press the Number buttons to enter the three digit code number for your brand of VCR (or converter).
 - If the right number was entered, the VCR (or the converter) should turn off.
 - If the VCR (or the converter) does not respond to the remote control, repeat steps 1 to 4 with another code number until the device turns off.

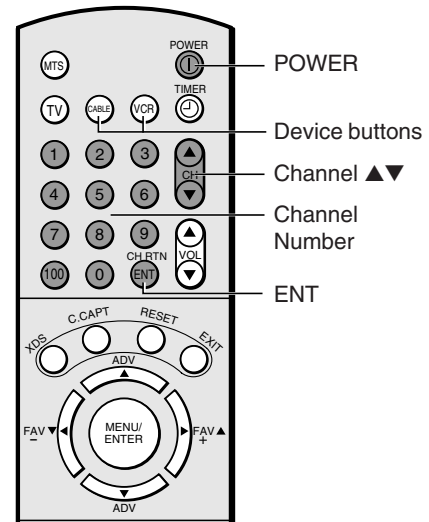
The back-light will blink to confirm the storage.

5. Press the device button (CABLE or VCR) to release the program.
6. Press TV to control the TV.

For future reference, write down the code numbers you used:

VCR code _____

Cable code _____



Note:

- Each time you replace the batteries, you must reprogram the remote control.
- Some newer VCRs are capable of working on either of two remote codes. These VCRs have a switch labeled “VCR1/VCR2.”

If your VCR has this kind of switch, it may not respond to any of the code numbers for your VCR brand name. In this case, set the switch to the other position (VCR1 or VCR2) and reprogram the remote control.

VCR code table

Brand name	Code number				
AIWA	034	MARTA	101	STS	013
AKAI	146, 043, 046, 124, 142, 016	MATSUI	202	SYLVANIA	031, 034, 067
ALBA	202	MEI	031	SYMPHONIC	034
AMPRO	072	MEMOREX	101, 003, 010, 014, 031, 034, 053, 072	TANDY	010, 034
ANAM	031	MGA	045, 046, 059	TATUNG	043
AUDIO		MINOLTA	013, 020	TEAC	034, 043
DYNAMICS	012, 023, 043	MITSUBISHI	059, 061, 046, 051, 142, 013, 020, 045	TECHNICS	031, 070
BRANDT	204	MTC	034, 040	TEKNIKA	031, 019, 034, 101
BROKSONIC	035, 037, 129, 203	MULTITECH	024, 034	TELEFUNKEN	204
CANON	031	NEC	012, 023, 043, 048	THOMAS	034
CRAIG	003, 040	NORDMENDE	043	TMK	006
CURTIS MATHES	031, 041	OPTONICA	053, 054	TOSHIBA	001, 112, 131, 008, 047, 059, 082, 013, 017
DAEWOO	010, 110, 111, 112, 017	ORION	202	TOTEVISION	040, 101
DBX	012, 023, 043	PANASONIC	070, 140, 201, 031	UNITECH	040
DYNATECH	034, 053	PENTAX	013, 020, 031, 063	VECTOR	
ELECTROHOME	059	PHILCO	031, 034, 067	RESEARCH	012
EMERSON	006, 029, 035, 025, 034, 036, 037, 046, 101, 129, 131, 138, 017, 031, 202, 203	PHILIPS	031, 067, 034, 101, 054	VIDEO	
FISHER	003, 008, 009, 010	PILOT	101	CONCEPTS	012, 046, 034, 141
FUNAI	034	PIONEER	021, 048, 013	VIDEOSONIC	040
GE	031, 072, 144, 147, 063, 107, 109, 205, 206, 207, 208	PULSAR	072	WARDS	013, 024, 031, 034, 040, 053, 054, 003, 017, 131
GO VIDEO	132, 136	QUARTZ	014	YAMAHA	012, 043, 034
GOLDSTAR	012, 013, 020, 101, 123	QUASAR	031	ZENITH	072, 080, 056, 048, 034, 101, 058
HARMAN		RCA	013, 020, 034, 041, 040, 107, 109, 140, 144, 147, 031, 205, 206, 207, 208		
KARDON	012, 045	REALISTIC	003, 008, 010, 014, 031, 034, 040, 053, 054, 101		
HITACHI	004, 026, 034, 043, 063, 047, 013	RICOH	058		
INSTANTREPLAY	031	RUNCO	072		
JCL	031	SALORA	014		
JCPENNY	012, 013, 040, 101, 031	SAMSUNG	040, 107, 109, 112, 017, 205, 206		
JENSEN	043	SANSUI	043, 048		
JVC	048, 043, 130, 152, 055, 060, 012, 031, 047	SANYO	003, 010, 014		
KENWOOD	014, 048, 043	SCOTT	017, 037, 129, 112, 131		
LLOYD	034	SEARS	003, 008, 010, 013, 014, 017, 101, 009, 031		
LXI	003, 009, 017, 034, 101, 013, 014	SHARP	031, 054, 053		
MAGIN	040	SHINTOM	024		
MAGNAVOX	067, 031, 034, 041	SONY	056, 057, 058, 003, 052, 031		
MARANTZ	031, 067, 012	SOUNDESIGN	034		

Cable TV converter code table

Brand name	Code number		
ABC	001, 004, 039, 045, 053, 003, 042	RCA	047
ANTRONIK	014	REGAL	049, 050
ARCHER	005, 007, 014, 024	REGENCY	057
CABLE STAR	026	REMBRANT	025
CENTURY	007	RK	091
CITIZEN	007	SAMSUNG	030, 068
COLOUR VOICE	065, 090	SCIENTIFIC	
COMBANO	080, 081	ATLANTA	003, 011, 041, 042, 043, 045, 046
COMTRONICS	019, 030, 202	SHERITECH	022
DIAMOND	023	SIGNAL	030
EAGLE	020, 030, 040	SIGNATURE	001
EASTERN	057, 062, 066	SL MARX	030
ELECTRICORD	032	SPRUCER	047, 078
GE	072	STANDARD	
GEMINI	008, 022, 025, 054	COMPONENTS	203
GI	001, 074	STARCOM	002, 004, 008, 009
GOLDEN		STARGATE	008, 030
CHANNEL	030	SYLVANIA	067
HAML IN	049, 050, 055, 204, 207	TADIRAN	030
HITACHI	001, 055	TANDY	017
HOSPITALITY	070, 077	TELECAPATION	021
JERROLD	002, 003, 004, 010, 001, 008, 009, 069, 074, 201	TEXSCAN	029, 067
M-NET	037	TOCOM	039, 040, 056
MACOM	033	TOSHIBA	052
MAGNAVOX	012, 079, 010, 064	UNIKA	007, 014, 024
MEMOREX	052	UNITED CABLE	004, 053
MOVIE TIME	028, 032	UNIVERSAL	007, 024, 027, 035, 005, 014, 026, 032
NSC	071, 073, 015, 028, 038	VIEWSTAR	086, 087, 088, 089, 012, 015, 018, 202, 205
OAK	016, 031, 037, 053	ZENITH	052, 060, 093
PANASONIC	044, 047		
PARAGON	052		
PHILIPS	020, 065, 006, 012, 013, 085, 090, 202		
PIONEER	034, 051, 001, 063, 076		
POPULAR			
MECHANICS	206		
POST NEWS			
WEEK	016		
PRUCER	059		
PTS	011, 048, 071, 072, 073, 074		
PULSAR	052		

Learning about the remote control

MTS press to select STEREO, SAP or MONO audio sound

TV press to control the TV

CABLE press to control the cable TV converter (page 11)

VCR press to control the VCR (page 10)

POWER turns the TV on and off (pages 11 and 35)

Channel ▲▼ cycles through programmed channels (page 18)

Channel Numbers [0-9,100] allow direct access to channels (page 18)

Volume ▲▼ adjusts the volume level

CH RTN returns to the last viewed channel (page 20)

XDS displays the extended data service information (page 33)

C. CAPT selects the closed caption mode (page 34)

RESET resets audio and picture adjustments to the factory settings (page 32)

EXIT exits programming menus (page 15)

MENU allows access to programming menus (page 15)

ENTER sets programmed menu information (pages 15, 19-22)

▲▼ ◀▶ selects or adjusts programming menus (page 15)

FAV ▼▲ cycles through favorite channels (page 20)

MUTE mutes the sound (page 36)

RECALL displays screen information (page 32)

TV/VIDEO selects video input source (page 32)

SURROUND turns the surround sound on and off (page 37)

PIP Functions allow access to PIP functions (pages 23, 24)

PIP press to turn on or off the PIP

SOURCE press to select the input source

STILL press to freeze the PIP

LOCATE press to change the position of the PIP

SWAP press to switch the main and small pictures

VCR Functions allow access to VCR functions (page 10)

PLAY press to play a videotape

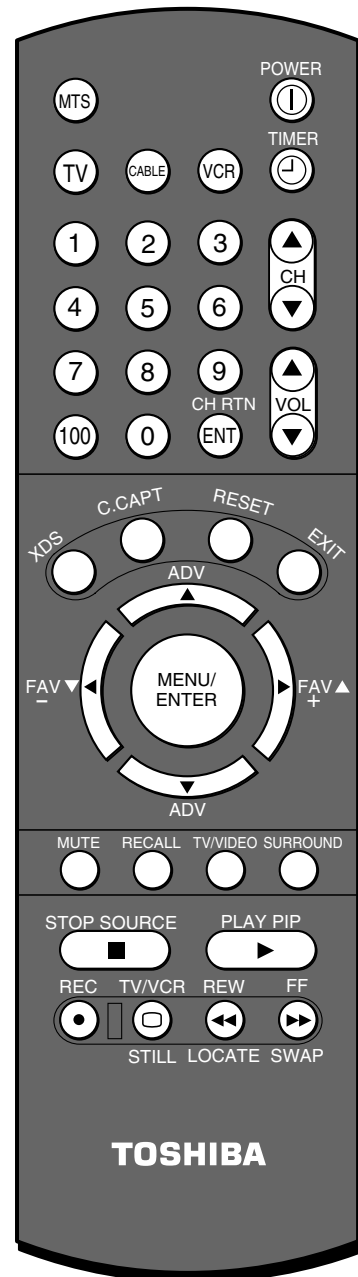
STOP press to stop a videotape

REC press to start recording a videotape

TV/VCR toggles between TV and VCR
when viewing while recording

REW press to rewind a videotape

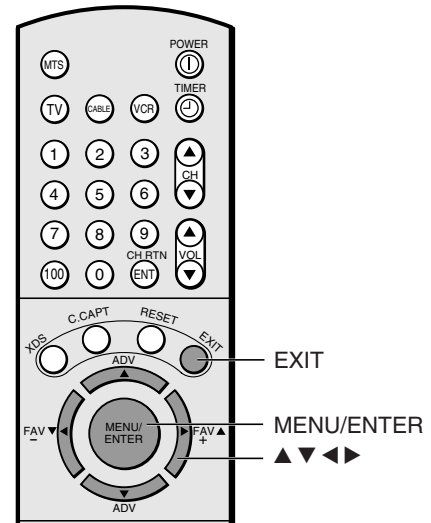
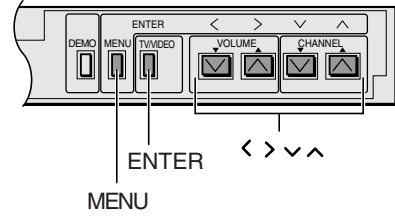
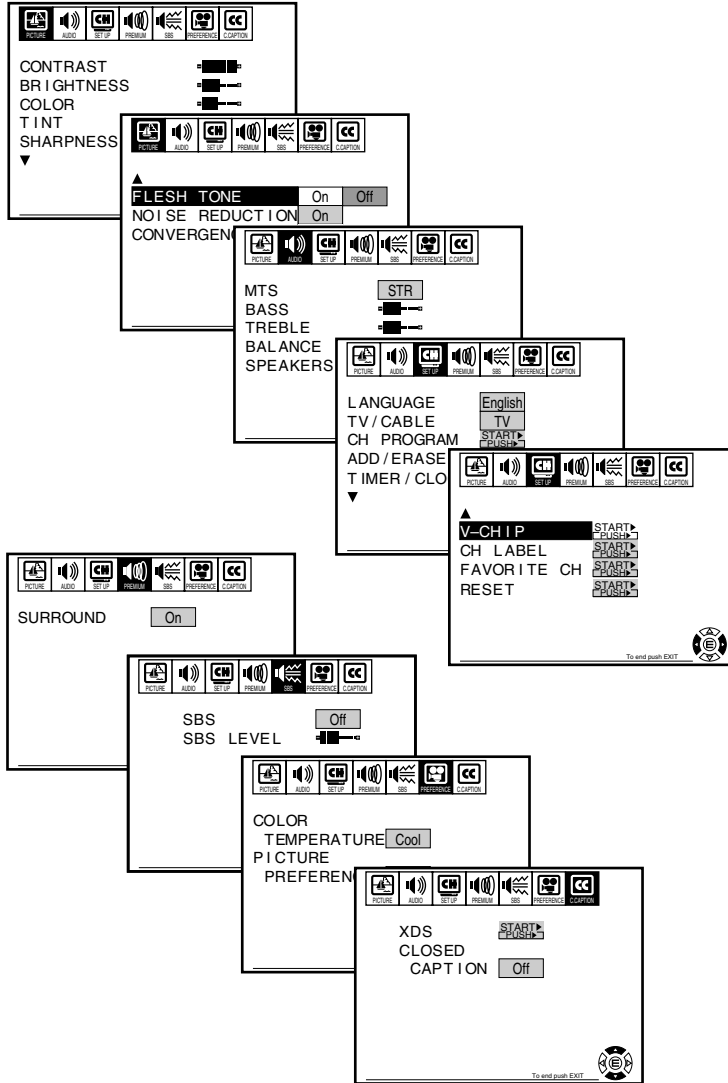
FF press to fast forward a videotape



Setting up your TV

After you've installed the batteries and programmed the remote control, you need to set some preferences on the TV using the menu. You can access the menu with the buttons on your TV or by using the remote control.

1. Press MENU to display menu.
2. Press ◀ (<) or ▶ (>) to select menu.
3. Press ▲ (^) or ▼ (v) select an item.
4. Press ◀ (<) or ▶ (>) to select or adjust a setting.



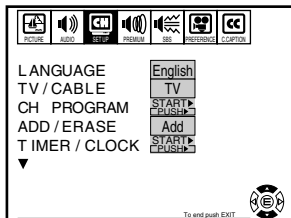
- Use the ENTER button to activate the function settings in the SET UP menu.
- The main menu display will disappear automatically if you do not make a selection within 15 seconds, and the other displays will disappear within 6 seconds.
- If you want to close all the on-screen displays instantly, press EXIT.

Changing the on-screen display language

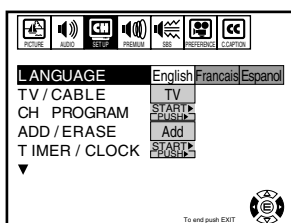
You can choose from three different languages (English, French and Spanish) for the on-screen displays. Adjustment menus and messages will appear in the language of your choice.

To select a language:

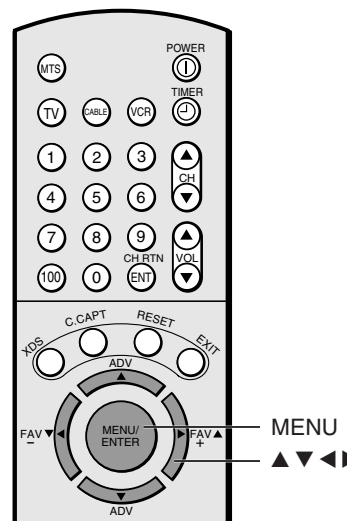
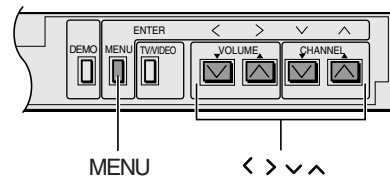
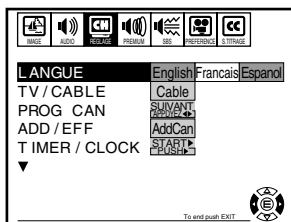
1. Press MENU, then press ◀ (<) or ▶ (>) until the SET UP menu appears.



2. Press ▼ (v) or ▲ (^) to highlight LANGUAGE.



3. Press ◀ (<) or ▶ (>) to highlight your desired language.



Adding channels to the TV's memory

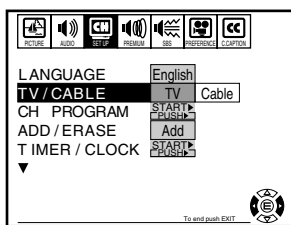
Your TV will stop on specific channels that are stored in the TV's channel memory when you press Channel ▲ or ▼. Use the steps below to set all active channels in your area automatically.

Programming channels automatically

Your TV can automatically detect all active channels and store them in its memory. After the TV has stored the channels in its memory, you can erase channels or add your favorite channels.

To add channels:

1. Press MENU, then press ◀ or ▶ until the SET UP menu appears.
2. Press ▼ or ▲ until the TV/CABLE is highlighted.
3. Press ◀ or ▶ to highlight either TV or CABLE, depending on which you use.



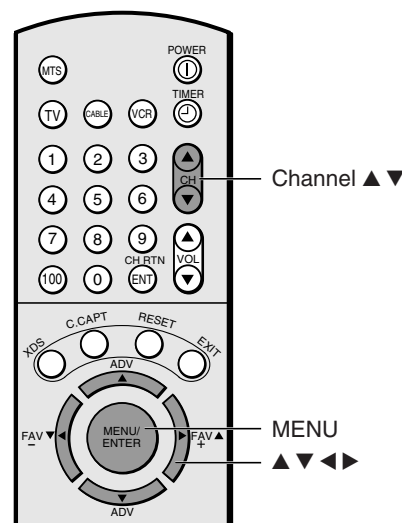
If you use an antenna, choose TV.

If you use cable, choose CABLE.

4. Press ▼ to select CH PROGRAM.
5. Press ◀ or ▶ to start channel programming. The TV will automatically cycle through all the TV or Cable channels (depending on which you selected), and store all active channels in the channel memory.

While the TV is cycling through the channels, the message "Programming Now Please Wait" appears.

6. When channel programming is complete, the message "Completed (channel or cable number)" appears.
7. Press Channel ▲ or ▼ to view the programmed channels.

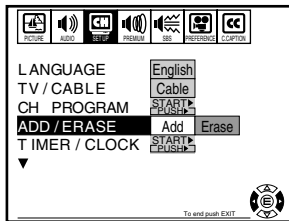


Adding and erasing channels manually

After you've programmed the channels, you can add or erase specific channels.

To add or erase channels:

1. Select the channel you want to add or erase using Channel ▲ or ▼. If adding channels, you must select the channel to add by using the Channel Number buttons.
2. Press MENU, then press ◀ (◀) or ▶ (▶) until the SET UP menu appears.
3. Press ▼ (▼) or ▲ (▲) to highlight ADD/ERASE.



4. Press ◀ (◀) or ▶ (▶) to select Add or Erase, whichever function you want to perform.
5. Repeat steps 1-4 for other channels you want to add or erase.

Changing channels

To change the channel, you can:

- change the programmed channels using the remote control
- select a channel directly using the remote control
- scan the channels using the TV buttons

To change to the next programmed channel:

Press Channel ▲ or ▼ on the TV or remote control.

To change to a specific channel (programmed or unprogrammed):

Press the Channel Number buttons (0-9 and 100).

For example, to select channel 125, press the 100 button, the 2 button, and the 5 button.

Adjusting the color convergence

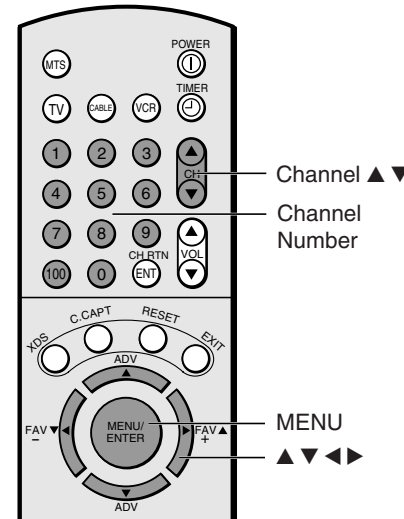
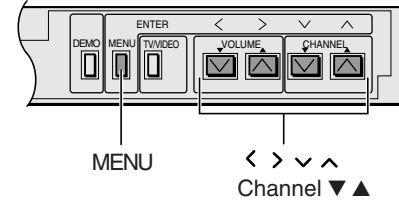
This projection TV uses three separate TV tubes: a red one, a green one, and a blue one. The red, green, and blue images are projected onto the screen where they converge to form a full color picture. You can see a clear picture only when they converge correctly.

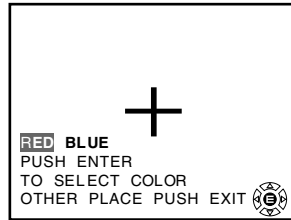
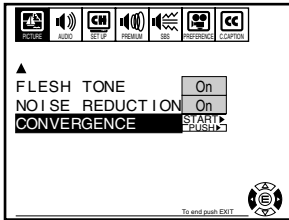
Convergence may drift over time or if you move the TV. If you can see clear images on the screen, skip this procedure.

This adjustment should be made after the TV has been on for at least 30 minutes.

To check and adjust the color convergence:

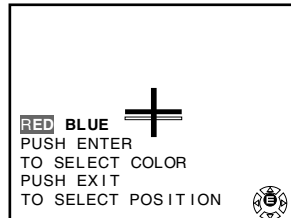
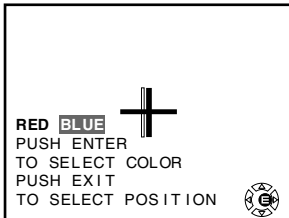
1. Press MENU, then press ◀ or ▶ until the PICTURE menu appears.
2. Press ▲ or ▼ to highlight CONVERGENCE.
3. Press ◀ or ▶ to display the center CONVERGENCE menu.



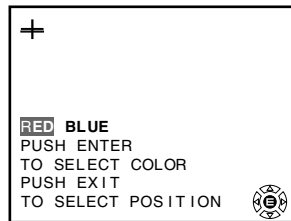
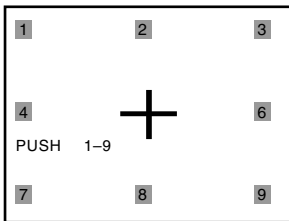


If you see separate colored lines, you have to adjust the convergence.

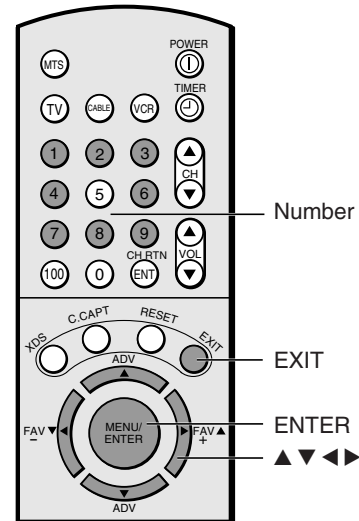
4. Press ENTER to highlight RED or BLUE.



5. Press ▲ (up), ▼ (down), ◀ (left), or ▶ (right) to converge the red or blue line into the green line. When color convergence is correctly adjusted, you will see two single white lines.
6. Press EXIT to display the circumference CONVERGENCE menu.
7. Press the corresponding Number button (1-9) to select the place you want to adjust.



8. Press ENTER to highlight RED or BLUE.
9. Press ▲▼◀▶ to converge the red or blue line into the green line. Repeat steps 8 and 9 until you see two single white lines.
10. Press EXIT once to select any other place you want to adjust, then repeat steps 7 through 9.
11. Press EXIT twice to close the CONVERGENCE menu.



Using the TV's features

Adjusting the channel settings

Switching between two channels

You can switch between two channels without entering an actual channel number each time.

To switch between two channels:

1. Select the first channel you want to view.
2. Select a second channel with the Channel Number buttons (0-9, 100).
3. Press CH RTN. The previous channel will be displayed.

Each time you press CH RTN, the TV will switch back and forth between the two channels.

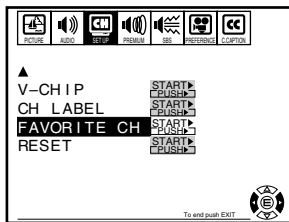
Programming your favorite channels

You can preset up to 12 of your favorite channels using the Favorite Channel Programming feature. Because this feature scans through only your favorite channels, it allows you to skip other channels you do not normally watch.

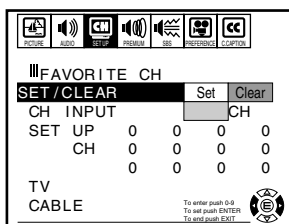
You can still use Channel ▲▼ to scan through all the channels you programmed in the TV's memory.

To program your favorite channels:

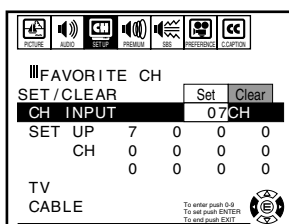
1. Press MENU, then press ◀ or ▶ until the SET UP menu appears.
2. Press ▲ or ▼ to highlight FAVORITE CH.



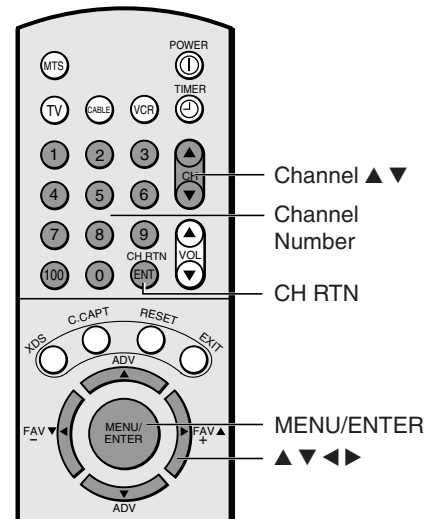
3. Press ◀ or ▶ to display the FAVORITE CH menu. SET/CLEAR will be highlighted.
4. Press ◀ or ▶ to highlight Set.



5. Press ▼ to highlight CH INPUT, then press the Channel Number buttons to enter the channel number.
6. Press ENTER.



7. Repeat steps 5 and 6 for other channels.



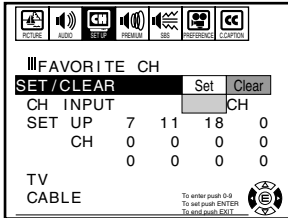
To select your favorite channels:

Press the FAV ▼▲ buttons on the remote control to select your favorite channels.

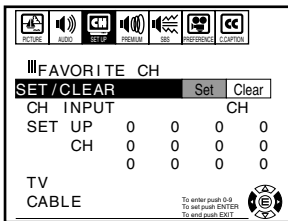
The FAV ▼▲ buttons will not work until you have programmed your favorite channels.

To clear your favorite channels:

1. Press MENU, then press ◀ or ▶ until the SET UP menu appears.
2. Press ▲ or ▼ to highlight FAVORITE CH.
3. Press ◀ or ▶ to display the FAVORITE CH menu. SET/CLEAR will be highlighted.



4. Press ◀ or ▶ to highlight Clear, then press ENTER until "0" replaces the channel numbers you have programmed.

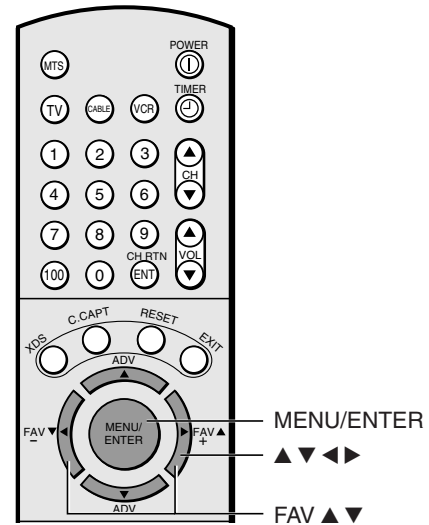


Labeling channels

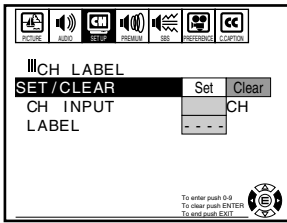
Channel labels will appear over the channel number display each time you turn on the TV, select a channel, or press the RECALL button. You can choose any four characters to identify the channels.

To create channel labels:

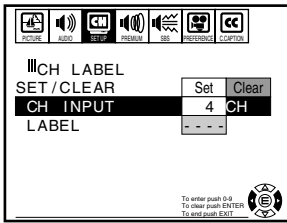
1. Press MENU, then press ◀ or ▶ until the SET UP menu appears.
2. Press ▲ or ▼ to highlight CH LABEL.



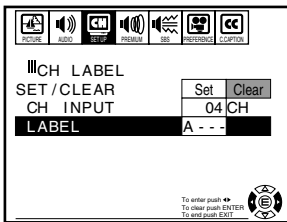
- Press ◀ or ▶ to display the CH LABEL menu.
SET/CLEAR will be highlighted.
- Press ◀ or ▶ to highlight Set.



- Press ▼ to highlight CH INPUT, then select a channel you want to label.



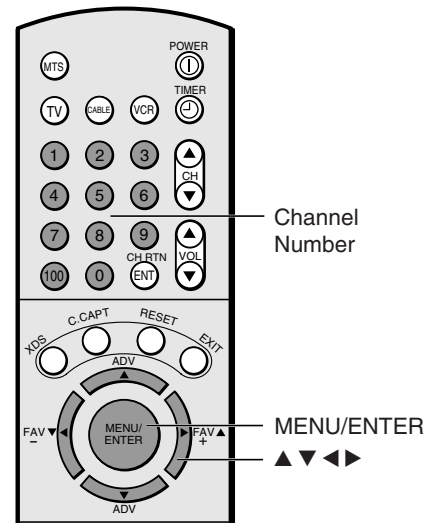
- Press ▼ to highlight LABEL.
- Assign the label to the channel. Press ◀ or ▶ to enter a character in the first space. Press the button repeatedly until the character you want appears on the screen. Press ENTER.



- Repeat step 7 to enter the rest of the characters.
If you would like a blank space in the label name, you must choose an empty space from the list of characters. Otherwise, a dash will appear in that space.
- Repeat steps 4 through 8 for other channels. You can assign up to 32 labels.

To erase channel labels:

- Press MENU, then press ◀ or ▶ until the SET UP menu appears.
- Press ▲ or ▼ to highlight CH LABEL.
- Press ◀ or ▶ to display the CH LABEL menu.
SET/CLEAR will be highlighted.
- Press ◀ or ▶ to highlight Clear.
- Press ▼ to highlight CH INPUT, then select the channel you want to clear with the Channel Number buttons.
- Press ENTER.
- Repeat steps 5 and 6 to erase other channel labels.

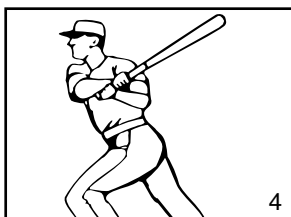


Watching picture-in-picture (PIP)

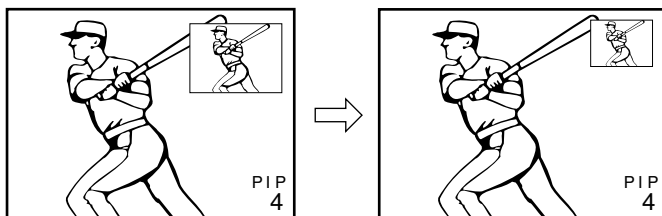
The picture-in-picture (PIP) feature allows you to watch two pictures at the same time. The smaller picture can be a TV broadcast or come from an external source, such as a VCR.

To display a picture from an external source as a small picture:

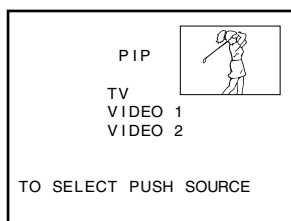
1. Make sure you have connected the external source equipment properly. For more information, see the “Connecting your TV” on page 5.
2. Select the program you want to watch.



3. Press PIP once to display a small picture. A window 1/9 the size of the screen will appear. Press PIP a second time to display a 1/16 size window.



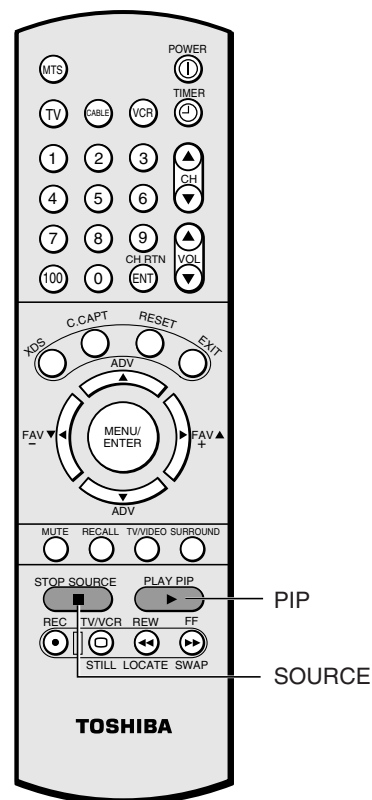
4. Press SOURCE repeatedly to select the input source (VIDEO 1 or VIDEO 2) for the small picture. The selected source will be displayed in purple. ColorStream can not be selected.



5. Select channels for the small picture using the VCR's channel keys or playback a tape.

To turn PIP off:

Press PIP once or twice, depending on the size of the small picture screen you selected.

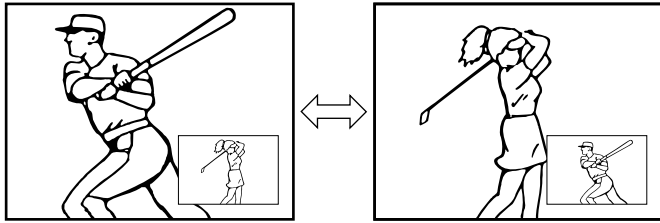


Note:

PIP can not be turned on when the ColorStream input is being viewed.

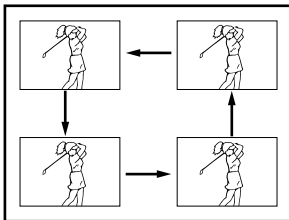
Switching the main and small pictures

Press SWAP while you are using the PIP feature to switch the main and small pictures. The main and small pictures will switch each time you press the SWAP button.



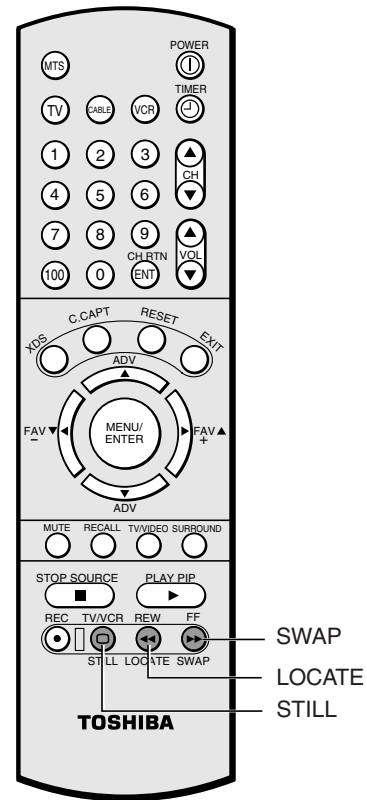
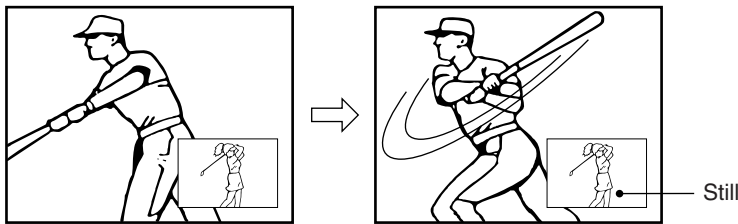
Changing the position of the small picture

Press LOCATE repeatedly while you are watching a small picture. The display position of the small picture will change in the following order:



Freezing the small picture

Press STILL while you are watching a small picture. The small picture will become a still picture. To return to the moving picture, press STILL again.



Using V-CHIP control

Some TV programs and movies include signals that classify the content of the program (violence, sex, dialog, language). The V-CHIP control feature in this TV detects the signals and blocks the programs according to your selections. To use this feature, perform the following setup.

Selecting the V-CHIP menu

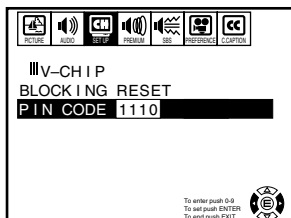
1. Press MENU, then press ◀ or ▶ until the SET UP menu appears.
2. Press ▲ or ▼ to highlight V-CHIP.



3. Press ◀ or ▶ to display the pin code entering mode.

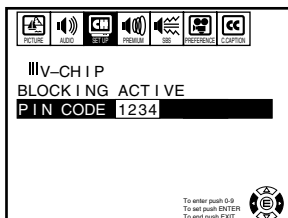
- Factory reset status :

Set your 4 digit code by pressing the Number buttons (0-9).



- When the pin code is already stored :

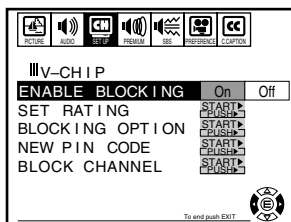
Press the Number buttons (0-9) to enter the 4-digit pin code used to block channels.



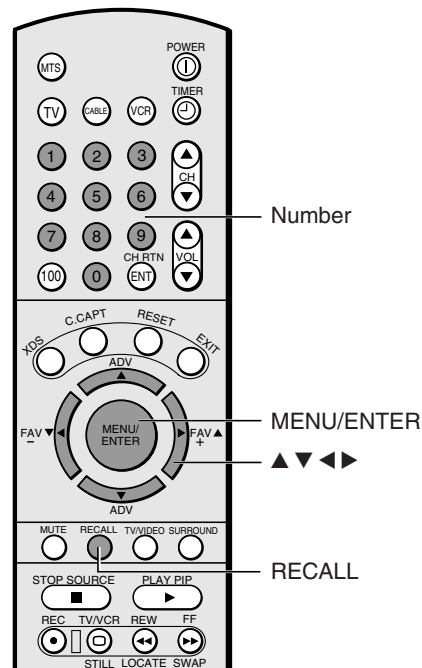
If a wrong pin code has been entered, the message “Incorrect” will appear. Try to enter the correct code again.

If you can not remember the pin code you have stored, while in the pin code entering mode, press the RECALL button four times within 5 seconds. The pin code you have stored will be released. (Factory reset status.)

4. Press ENTER to display the V-CHIP menu.



Continue to set each item following the steps on the next page.



Adjusting the V-CHIP menu

ENABLE BLOCKING

Press ◀ or ▶ to select On or Off.

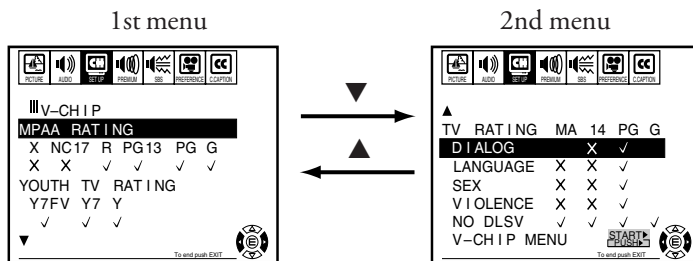
On : To enable your setting (Block)

Off : To release your setting (Unblock)

Note: The block channel function is not affected with this selection.

SET RATING (Setting the movie or TV ratings for your choice)

1. Press ◀ or ▶ to display the SET RATING menu.
2. Press ▼ or ▲ to select item.
3. Press ▶ to block (display X)
Press ◀ to unblock (display ✓)
4. Repeat steps 2 and 3 to set the next item.



About Rating

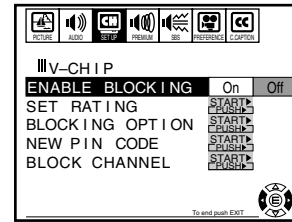
MPAA RATING: Independent rating system for movies

- G: General Audience (Appropriate for all ages)
- PG: Parental Guidance Suggested (Some material may not be suitable for children)
- PG13: Parents Strongly Cautioned (Some material may be inappropriate for children under 13)
- R: Restricted (Under 17 requires accompanying parent or adult guardian.)
- NC17: Not intended for anyone 17 and under
- X: X-rated (For adults only)

TV RATING: Independent rating system for broadcasters

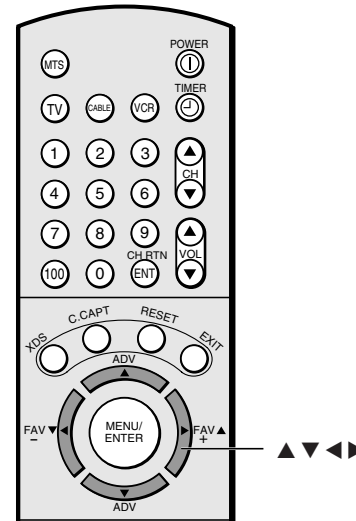
- YOUTH TV RATING:
- Y: All Children (This program is designed to be appropriate for all children)
 - Y7,Y7FV: Directed to Older Children (This program is designed for children age 7 and above. Note: For those programs where fantasy violence may be more intense or more combative than other programs in this category, such programs will be designated TV-Y7-FV.)
 - G: General Audience (Most parents would find this program suitable for all ages.)
 - PG: Parental Guidance Suggested (This program contains material that parents may find unsuitable for younger children.)
 - D) Some suggestive dialog L) Infrequent coarse language
 - S) Some sexual situations V) Moderate violence
 - 14: Parents Strongly Cautioned (This program contains some material that many parents would find unsuitable for children under 14 years of age.)
 - D) Intensely suggestive dialog L) Strong coarse language
 - S) Intense sexual situations V) Intense violence
 - MA: Mature Audience Only (This program is specifically designed to be viewed by adults and therefore may be unsuitable for children under 17.)
 - L) Crude or indecent language S) Explicit sexual activity
 - V) Graphic violence

V-CHIP menu

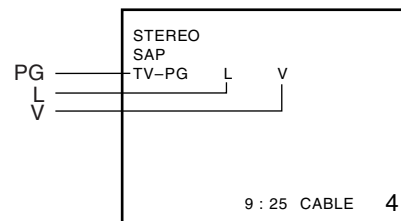


To select each item:

Press ▼ or ▲.



The rating of the TV programs you are now watching can be confirmed by pressing the RECALL button.



Adjusting the V-CHIP menu (continued)

BLOCKING OPTION

Press ◀ or ▶ to display the BLOCKING OPTION menu, then press ▼ or ▲ to select item.

MPAA UNRATED

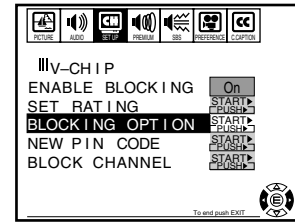
Press ◀ or ▶ to select On (Block) or Off (Unblock) for unrated programs on MPAA rating system.

TV NONE RATING

Press ◀ or ▶ to select On (Block) or Off (Unblock) for programs rated NONE on TV PARENTAL GUIDELINES.

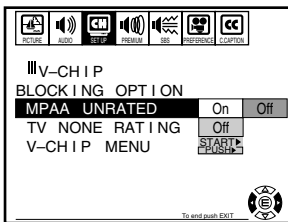
If you select On, the NOTES shown below will be displayed since the emergency information may also be blocked.

V-CHIP menu

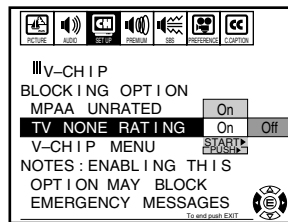


To select each item:
Press ▼ or ▲.

BLOCKING OPTION menu



If you select On on TV rating

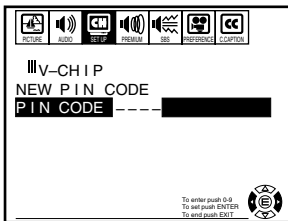


V-CHIP MENU:

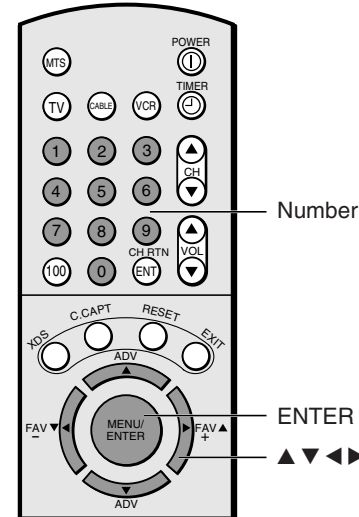
Press ◀ or ▶ to return to the V-CHIP menu.

NEW PIN CODE (Changing Pin Code):

1. Press ◀ or ▶ to display the NEW PIN CODE menu.
2. Press the Number buttons (0-9) to enter a 4-digit code.
The numbers you enter will replace the dashes in the display.

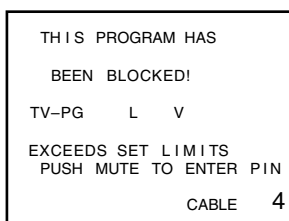


3. Press ENTER.
The display will return to the V-CHIP menu.

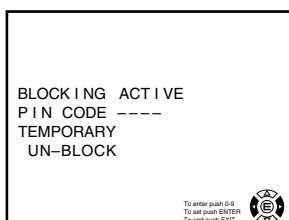


Unblocking programs temporarily

1. If you try to watch a TV program that exceeds the rating limits you set, the TV will enter into the program block mode.



2. If you want to watch the blocked program temporarily, press MUTE.
3. Press the Number button (0-9) to enter the 4-digit code you have stored.



4. Press ENTER.

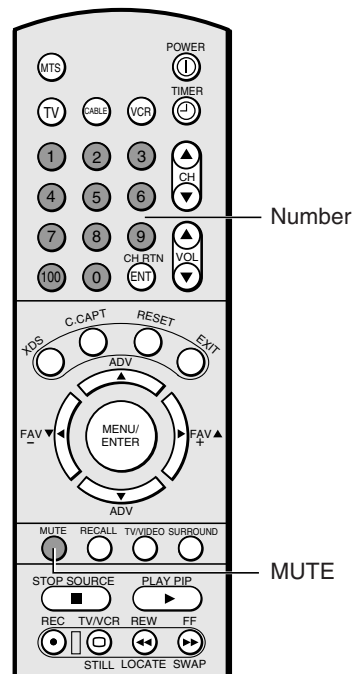
If the number is correct, the block mode will be released and the normal picture will appear.

All blocking is disabled until the TV is turned off.

It will be enabled when the power is reapplied.

If a wrong pin code is entered, the message "Incorrect" appears.

Enter the correct code again.



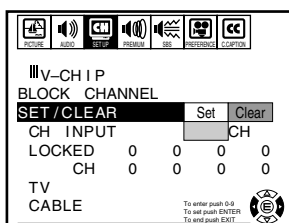
Blocking channels

With the BLOCK CHANNEL feature, you can block specific channels. The TV will not be able to tune these channels with the Channel \blacktriangle / \blacktriangledown buttons or Channel Number buttons, unless you clear the setting.

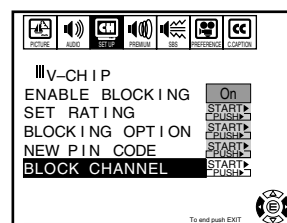
This TV has 8 memory spaces total, 4 for TV mode and 4 for CABLE mode.

To block channels:

1. Press \blacktriangle or \blacktriangledown to display the BLOCK CHANNEL menu. SET/CLEAR will be highlighted.
2. Press \blacktriangle or \blacktriangledown to highlight Set.



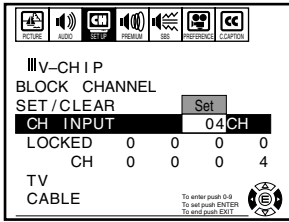
V-CHIP menu



To select each item:

Press \blacktriangledown or \blacktriangle .

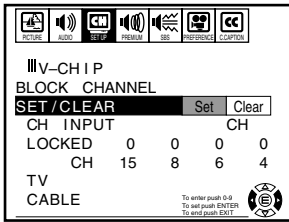
- Press ▼ to highlight CH INPUT, then press the Channel Number buttons to enter the channel number.
- Press ENTER.



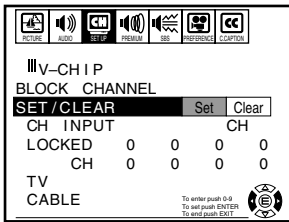
- Repeat steps 3 and 4 for other channels.
- Press EXIT to clear the screen.

To unlock channels:

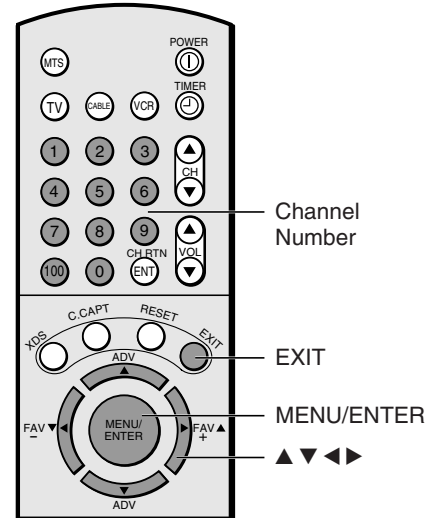
- Select V-CHIP menu.
- Press ▲ or ▼ to highlight BLOCK CHANNEL.
- Press ◀ or ▶ to display the BLOCK CHANNEL menu.
- Press ◀ or ▶ to highlight Clear.



- Press ENTER until "0" replaces the channel numbers you have blocked.



- Press EXIT to clear the screen.



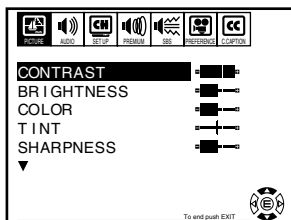
Adjusting the picture

Adjusting the picture quality

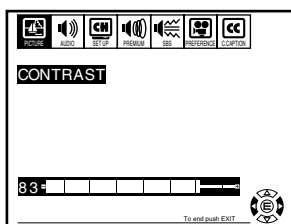
You can adjust the picture quality to your personal preferences, including the contrast, brightness, color, tint, sharpness, color temperature, picture preference, flesh tone and noise reduction. The qualities you choose will be stored automatically in your TV's memory so you can recall them at any time.

To adjust the picture quality:

1. Press MENU, then press ◀ (<) or ▶ (>) until the PICTURE menu appears.
2. Press ▼ (∨) or ▲ (∧) until the item you want to adjust is highlighted.



3. Press ◀ (<) or ▶ (>) to adjust the level.



Selection	◀ Pressing ▶	
contrast	lower	higher
brightness	darker	lighter
color	paler	deeper
tint	reddish	greenish
sharpness	softer	sharper

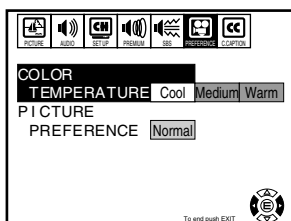
The PICTURE items you have adjusted will be stored in the TV's memory automatically. You can keep these settings or choose preset options under the PREFERENCE menu. (See "Selecting the color temperature" and "Adjusting the picture preferences" on pages 30-31.)

Selecting the color temperature

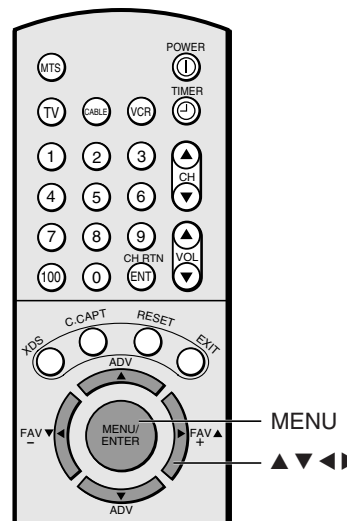
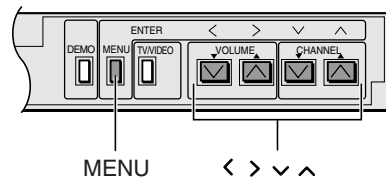
You can change the quality of the picture by selecting from three preset color temperatures: cool, medium, and warm.

To select the color temperature:

1. Press MENU, then press ◀ (<) or ▶ (>) until the PREFERENCE menu appears.
2. Press ▼ (∨) or ▲ (∧) to highlight COLOR TEMPERATURE.
3. Press ◀ (<) or ▶ (>) to highlight the mode you want.



Mode	Picture Quality
cool	blueish
medium	neutral
warm	reddish



Adjusting the picture preferences

You can select your desired picture type from three preset picture modes: Normal, Theater, and Memory.

To select the picture preferences:

1. Press MENU, then press ◀ or ▶ until the PREFERENCE menu appears.
2. Press ▲ or ▼ to highlight PICTURE PREFERENCE.
3. Press ◀ or ▶ to highlight the mode you want.

The table below describes the effects of the different preferences.

Mode	Picture Quality
normal	picture quality set at factory
theater	movie-like picture setting
memory	your personal preference*

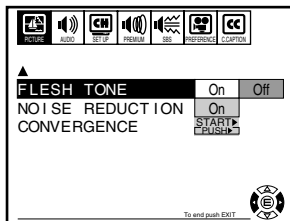
*(see "Adjusting the picture quality" on page 30)

Using the flesh tone feature

This feature allows you to obtain natural flesh tones by correcting the difference of tint between TV stations.

To turn on the flesh tone feature:

1. Press MENU, then press ◀ or ▶ until the PICTURE menu appears.
2. Press ▲ or ▼ to highlight FLESH TONE.
3. Press ◀ or ▶ to highlight On.



To turn off the flesh tone feature:

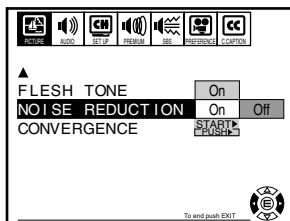
Choose Off in step 3 above.

Using the noise reduction feature

This feature allows you to reduce visible interference in your TV picture. This is useful when receiving a broadcast with a weak signal or playing back a video cassette or disk damaged by repeated use.

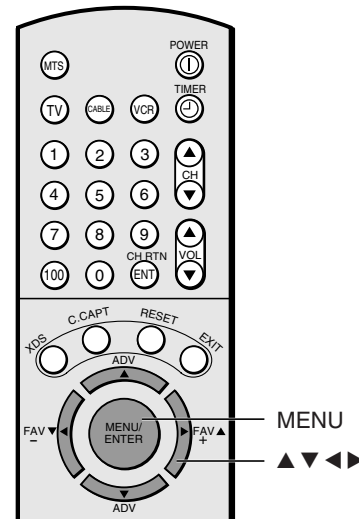
To turn on the noise reduction feature:

1. Press MENU, then press ◀ or ▶ until the PICTURE menu appears.
2. Press ▲ or ▼ to highlight NOISE REDUCTION.
3. Press ◀ or ▶ to highlight On.



To turn off the noise reduction feature:

Choose Off in step 3 above.



Resetting your adjustments to the factory settings

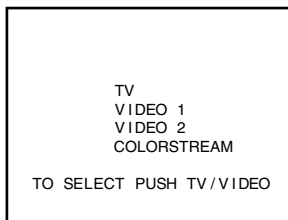
Press RESET.

The RESET function adjusts the following picture and audio functions.

contrast	max
brightness	center
color	center
tint	center
sharpness	center
noise reduction	off
color temperature	cool
picture preference	normal
bass	center
treble	center
balance	center

Watching video input

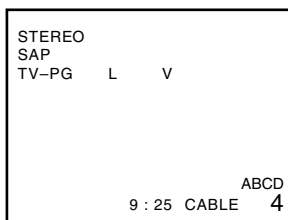
You can use the TV/VIDEO button to view a signal coming from other devices, such as VCRs or video disc players that may be connected to your TV. Select VIDEO 1, VIDEO 2, or ColorStream depending on which input jacks are used for connecting the devices. (See “Connecting your TV” on page 5.)



Displaying on-screen information

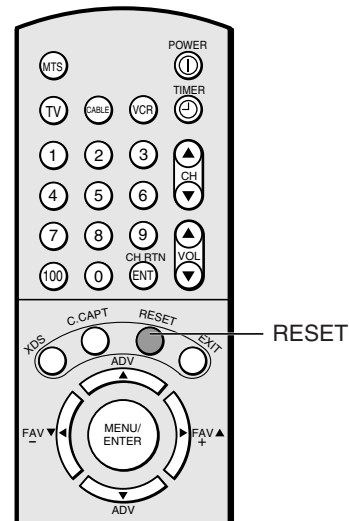
Press RECALL to display the following on-screen information:

- Channel number or VIDEO mode selected
- Channel label (if preset)
- Time (if preset)
- Stereo or SAP (second audio program) audio status
- V-CHIP rating status



Note:

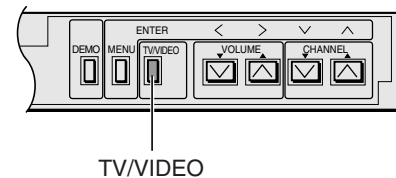
Resetting can also be done through the SETUP menu.



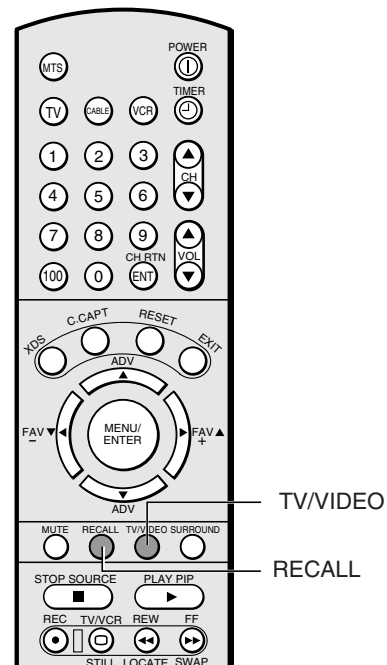
Note:

When ColorStream is selected, the video OUT signal will not have color.

To receive a color video OUT signal, a video or S-video IN jack must be used instead of the ColorStream connection.



TV/VIDEO



TV/VIDEO

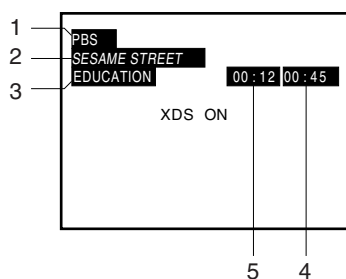
RECALL

Auto power off

The TV will automatically turn itself off after approximately 15 minutes if it is tuned to a vacant channel or if a station completes its broadcast for the day and stops broadcasting on that channel. This feature, however, does not work in the VIDEO mode.

Displaying XDS information

1. Select the desired program.
2. Press XDS to display the following XDS (eXtended Data Service) information for about 30 seconds.

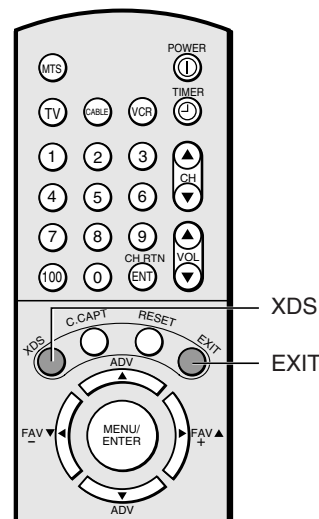


1. Network name
2. Program name
3. Program type
4. Program length
5. Elapsed time in show

Some of the above information may not be displayed.

If the TV program you are watching does not include XDS information, only XDS ON will be displayed for about 4 seconds when you select the XDS mode.

To close the XDS display:
Press EXIT.



Note:

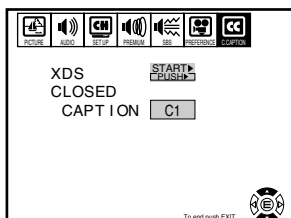
The XDS information can also be displayed through the C.CAPTION menu.

Using the closed caption feature

You have two options with the closed caption feature: captions or text. A caption is a printed version of the dialogue, narration and/or sound effects of a TV program. Text is information not related to the program that appears on half of the TV screen.

To view captions or text:

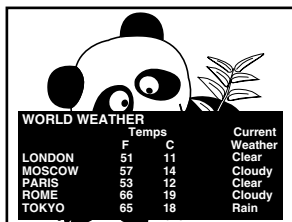
1. Select the desired program. The captioned programs are usually marked in your local TV listing by "CC."
2. Press C.CAPT to select the closed caption mode.



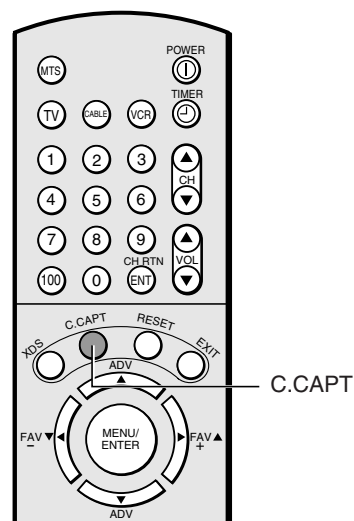
- Select C1, C2, C3, or C4 to view captions. Select C1 for translation of the primary language in your area.



- Select T1, T2, T3, or T4 to view Text.



To turn off the closed-caption feature:
Select Off in step 2.



Note:

A closed caption signal may not be decoded in the following situations:

- when a video tape has been dubbed
- when the signal reception is weak
- when the signal reception is nonstandard

When you choose a closed captioned channel and the text mode, the text screen always appears. When there is no signal, however, the text screen will not display text characters.

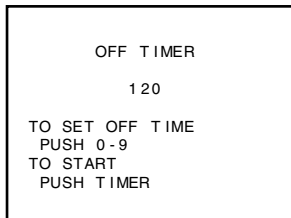
The closed caption can be selected through the C.CAPTION menu.

Setting the off-timer

You can set the TV so it turns off automatically.

To set the off-timer:

1. Press **TIMER** once to select the **OFF TIMER**.
2. Press two **Number** buttons (0-9) to enter how long you want the TV to remain on (up to three hours, in 10 minute increments). Enter the numbers after the number position starts to blink.



3. Press **TIMER** to start the timer. The display color will change from purple to blue, then turn off.

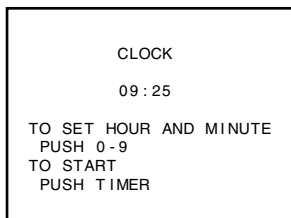
To cancel the off-timer:

Press **POWER** twice, once to turn the TV off, and once to turn it on again.

Setting the clock

To set the clock

1. Press **TIMER** twice to select the **CLOCK**.
2. Press four **Number** buttons (0-9) to enter the correct time. Enter the numbers after the number position starts to blink. The clock operates on a 12 hour-cycle.



3. Press **TIMER** to start the clock. The display color will change from purple to blue, then turn off.

To monitor the time:

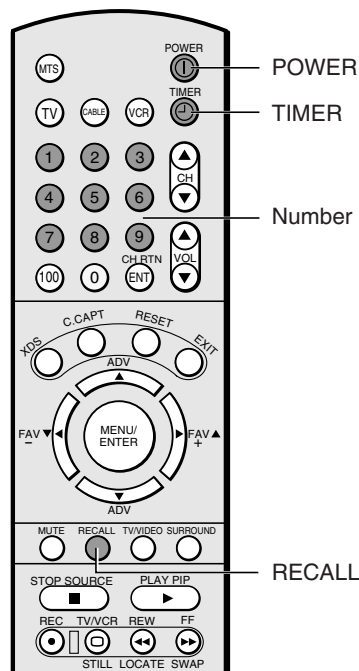
Press **RECALL**.

Note :

The timer can also be set through the **SET UP** menu.

If you want to see how much time remains before the shut-off time, press **TIMER** once.

The remaining time will be displayed. To erase the display, press **TIMER** again.



Note:

The clock can also be set through **SET UP** menu.

If the power source for the TV is interrupted (i.e., AC cord unplugged or power failure), the clock will have to be reset. (The time display will show "00:00.")

Adjusting the sound

Muting the sound

Press MUTE to temporarily turn off the sound. While the sound is off, the screen will display the word MUTE in the lower right-hand corner. To restore the sound, press MUTE again.

When you press the MUTE button, you automatically activate the closed caption feature. To deactivate this feature, press the MUTE button again. This feature only works when the closed caption mode is set to off. See “Using the closed caption feature” on page 34 for more information.

Selecting stereo/SAP broadcasts

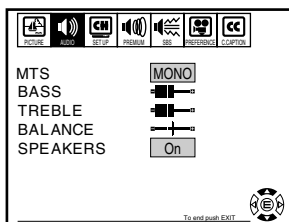
You can enjoy watching TV while you listen to high-fidelity stereo sound with the Multi-channel TV Sound (MTS) feature. MTS can also transmit a second audio program (SAP) containing a second language or other audio information.

When the TV receives a stereo or SAP broadcast, the word STEREO or SAP appears on the screen when the TV is turned on, you change the channel, or press the RECALL button.

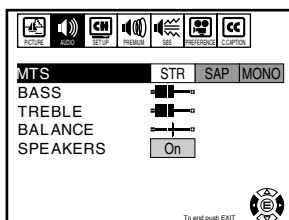
The MTS feature is not available while in the VIDEO mode.

To listen to stereo sound:

1. Press MENU, then press ◀ or ▶ until the AUDIO menu appears.



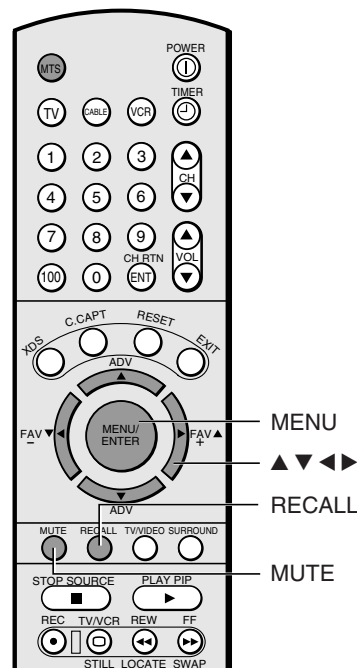
2. Press ▼ or ▲ to highlight MTS.
3. Press ◀ or ▶ to highlight STR.



You should leave your TV set to STR so you can automatically receive stereo or monaural sound, depending on the broadcast type. If the stereo sound is noisy, select MONO to reduce the noise. The word STR or SAP is displayed in yellow when the TV receives the signal, and highlighted in white when you have selected the feature.

To listen to a second audio program:

1. Press MENU, then press ◀ or ▶ until the AUDIO menu appears.
2. Press ▼ or ▲ to highlight MTS.
3. Press ◀ or ▶ to highlight SAP. You will hear only the second audio program from the left and right speakers.



NOTE:

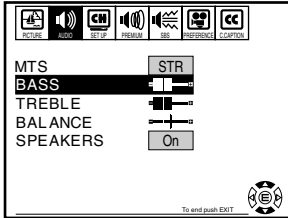
The MTS button can also be used to select Stereo, SAP or Monaural sound.

Adjusting the sound quality

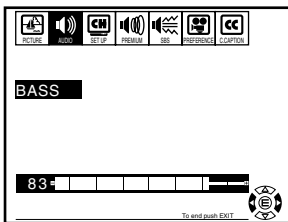
You can change the sound quality of your TV by adjusting the bass, treble, and balance.

To adjust the sound quality:

1. Press MENU, then press ◀ or ▶ until the AUDIO menu appears.
2. Press ▲ or ▼ to highlight the item you want to adjust.



3. Press ◀ or ▶ to adjust the level.



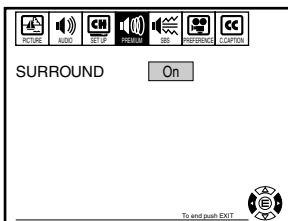
- ◀ makes the sound quality weaker or decreases the balance in the right channel, depending on the item selected.
- ▶ makes the sound quality stronger or decreases the balance in the left channel, depending on the item selected.

Using the surround sound feature

The surround sound feature expands the audio listening field wider and deeper to create exceptional sound quality from the TV's speakers. The feature uses stereo signals from a TV broadcast or video input.

To turn on the surround sound feature:

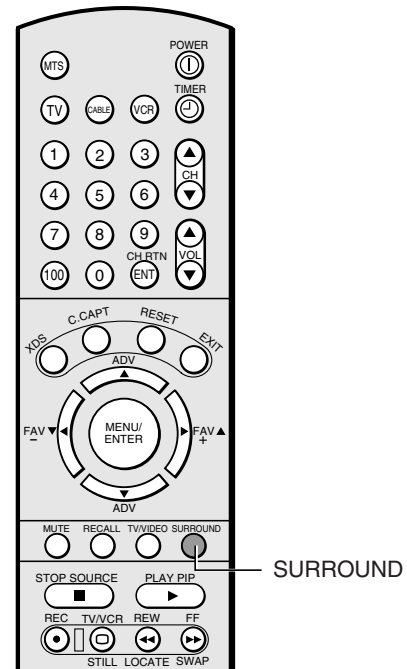
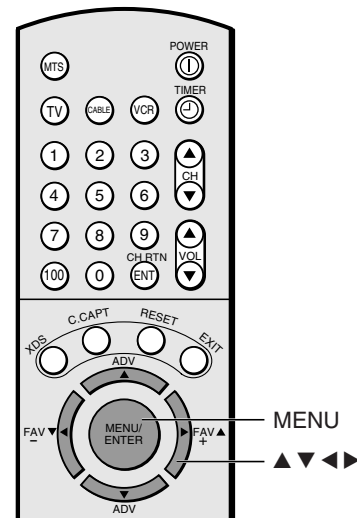
1. Select the stereo mode following the steps under "Selecting stereo/SAP broadcasts" on page 36.
2. Press SURROUND until SURROUND On appears on the screen.



To turn off the surround sound feature:

Choose Off in step 2 above.

In general, you should leave your TV set to SURROUND On so it can automatically produce surround stereo or monaural sound, depending on the broadcast type.

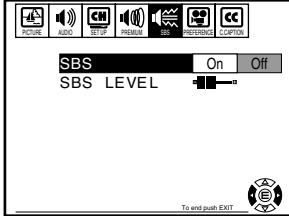


Using the Sub-Bass System (SBS)

The Sub-Bass System allows you to improve bass performance (even when the sound volume is low).

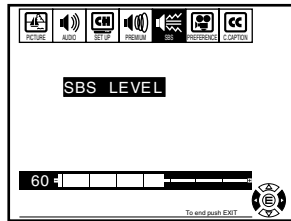
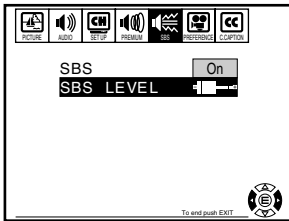
To turn on the Sub-Bass System:

1. Press MENU, then press ◀ or ▶ until the SBS menu appears.
2. Press ▲ or ▼ to highlight SBS.
3. Press ◀ or ▶ to highlight On.



To adjust the SBS level:

4. Press ▲ or ▼ to highlight SBS LEVEL.
5. Press ◀ or ▶ to adjust the SBS level.



To turn off the Sub-Bass System:

Choose Off in step 3 above.

Turning off the built-in speakers

Use this feature to turn the TV speaker off when you connect an audio system. (See “Connecting an audio system” on page 9.)

1. Press MENU, then press ◀ or ▶ until AUDIO menu appears.
2. Press ▲ or ▼ to highlight SPEAKERS.
3. Press ◀ or ▶ to highlight Off.

To turn on the built-in speakers:

Choose On in step 3.

Viewing the demonstration mode

When you press DEMO on the TV, the TV will automatically display a variety of its on-screen menus and special features. This function is provided for demonstration purposes only.

To stop the demonstration mode:

Press DEMO again or press EXIT or RECALL on the remote.

Understanding the last mode memory feature

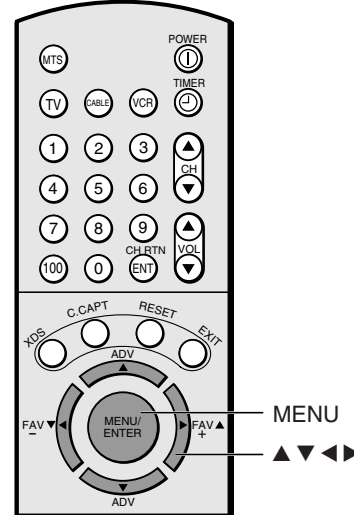
If the power is cut off while you are viewing the TV and the power is resupplied, the last mode memory feature will turn the TV on automatically.

If the power is going to be off for a long time or you are going to be away from home for a long time, remove the power plug from the wall outlet to prevent the TV from turning on in your absence.

Note:

The Sub-Bass System signal does not pass through the “Variable Audio OUT” jacks. (See page 9.)

However, the SBS menu will appear when the buttons are pressed.



Note:

Make sure the volume control of your audio amplifier is set to a moderate listening level.

Appendix

Specifications

Television System	NTSC standard
Channel Coverage	VHF: 2 through 13 UHF: 14 through 69 Cable TV: Mid band (A-8 through A-1, A through I) Super band (J through W) Hyper band (AA through ZZ, AAA, BBB) Ultra band (65 through 94, 100 through 125)
Power Source	120 V AC, 60 Hz
Power Consumption	172 W (average)
Audio Power	14 W + 14 W
Speaker Type	Two 6-1/4 inches (16 cm) round
Video/Audio Terminals	S-VIDEO INPUT Y: 1 V(p-p), 75 ohm, negative sync. C: 0.286 V(p-p) (burst signal), 75 ohm VIDEO/AUDIO INPUT VIDEO: 1 V(p-p), 75 ohm, negative sync. AUDIO: 150 mV(rms) (30% modulation equivalent, 47 kohm) ColorStream™ (component video) INPUT (for TE55T11 only) Y : 1V(p-p), 75 ohm CR: 0.7 V(p-p), 75 ohm CB: 0.7 V(p-p), 75 ohm AUDIO: 150 mV(rms), 47 kohm VIDEO/AUDIO OUTPUT VIDEO: 1 V(p-p), 75 ohm, negative sync. AUDIO: 150 mV(rms) (30% modulation equivalent, 4.7 kohm) VARIABLE AUDIO OUTPUT 0–350 mV(rms) (30% modulation equivalent, 4.7 kohm)
Dimensions	TE50T11 Width : 42-3/4 inches (1,086 mm) Height : 50-1/4 inches (1,276 mm) Depth : 20-13/16 inches (529 mm) TE55T11 Width : 46-3/4 inches (1,175 mm) Height : 53-9/16 inches (1,361 mm) Depth : 22-7/16 inches (570 mm)
Mass	TE50T11 : 217 lbs. (98.5 kg) TE55T11 : 250 lbs. (113.6 kg)
Supplied Accessories	Remote Control with 2 size “AA” batteries

Design and specifications are subject to change without notice.

Troubleshooting

Before calling a service technician, please check the following table for a possible cause of the problem and some solutions.

Problem

TV will not turn on

Solution

- Make sure the power cord is plugged in, then press POWER.
- The remote control batteries may be dead. Replace the batteries.

No picture, no sound

- Check the antenna/cable connections.

No sound, picture OK

- The sound may be muted. Press VOLUME.
- The station may have broadcast difficulties. Try another channel.
- Check that the SPEAKERS function in AUDIO menu is properly set.

Poor sound, picture OK

- The station may have broadcast difficulties. Try another channel.

Poor picture, sound OK

- Check the antenna connections.
- The station may have broadcast difficulties. Try another channel.
- Adjust the PICTURE menu.

Poor reception of broadcast channels

- The station may have broadcast difficulties. Try another channel.
- Check the antenna connections.
- If you are using a VCR, make sure the TV/VCR button is set correctly.

Cannot receive above channel 13

- Change TV/CABLE selection .

Black box appears on the screen

- Captioning may be turned on.

Unable to select a certain channel

- The channel may be locked out with the BLOCK CHANNEL feature, or erased with the ADD/ERASE feature.

Multiple images

- The station may have broadcast difficulties. Try another channel.
- Use a highly directional outdoor antenna.

Poor color or no color

- The station may have broadcast difficulties. Try another channel.
- Adjust the TINT and/or COLOR in the PICTURE menu.

No stereo or SAP sound from a known MTS broadcast

- Make sure the MTS feature is set properly.

The remote control does not operate

- Check if the appropriate device button (TV, CABLE, VCR) is pressed.
- There may be an obstruction between the remote control and the remote control sensor.
- The remote control batteries may be dead. Replace the batteries.

Limited United States Warranty

Toshiba America Consumer Products, Inc. ("TACP") and Toshiba Hawaii Inc. ("THI") make the following limited warranties. These limited warranties extend to the original consumer purchaser or any person receiving this set as a gift from the original consumer purchaser and to no other purchaser or transferee.

Limited One (1) Year Warranty

TACP and THI warrant this product and its parts against defects in materials or workmanship for a period of one (1) year after the date of original retail purchase. During this period, TACP and THI will repair or replace a defective part, at their option, with a new or refurbished part, without charge to you. TACP/THI Authorized Service Station personnel will come to your home when warranty service is required. Depending on the type of repair required, the service will either be performed in your home or the set will be taken to the TACP/THI authorized service station for repair and returned to your home at no cost to you.

Limited Two (2) Year Warranty of Picture Tube

TACP and THI further warrant the picture tube in this product against defects in materials or workmanship for a period of two (2) years after the date of original retail purchase. During this period, TACP and THI will repair or replace a defective picture tube at their option, with a new or refurbished picture tube, without charge to you, except that if a defective picture tube is replaced after one (1) year from the date of the original retail purchase, you pay labor charges involved in the replacement.

Rental Units

The warranty for rental units begins with the first rental or thirty (30) days from the date of shipment to the rental firm, whichever comes first.

Commercial Units

Products sold and used for commercial use have a limited ninety (90) day warranty for all parts, labor and picture tube.

How to Obtain Warranty Service

If after following all of the operating instructions in this manual and checking the section "BEFORE CALLING SERVICE PERSONNEL," you find that service is needed;

- (1) Call the TACP toll free number 1-800-631-3811 after you find a defective product or part to find the nearest TOSHIBA Authorized Service Station.
- (2) Please present your bill of sale or other proof to the Authorized Service Station. "Authorized TACP/THI service station personnel will come to your home when warranty service is required. Depending on the type of repair required, the service will either be performed in your home or the set will be taken to the TACP/THI Authorized service station for repair and returned to your home at no cost to you."

In the Continental United States call:



In Hawaii contact:

Toshiba Hawaii, Inc. 327 Kamakee Street, Honolulu, Hawaii 96814 (808) 521-5377

All warranties implied by state law, including the implied warranties of merchantability and fitness for a particular purpose, are expressly limited to the duration of the limited warranties set forth above. With the exception of any warranties implied by state law as hereby limited, the foregoing warranty is exclusive and in lieu of all other warranties, guarantees, agreements and similar obligations of manufacturer or seller with respect to the repair or replacement of any parts. In no event shall TACP or THI be liable for consequential or incidental damages.

No person, agent, distributor, dealer or company is authorized to change, modify or extend the terms of these warranties in any manner whatsoever. The time within which action must be commenced to enforce any obligation of TACP or THI arising under this warranty or under any state, or law of the United States or any state thereof, is hereby limited to 90 days from the date you discover or should have discovered, the defect. This limitation does not apply to implied warranties arising under state law.

This warranty gives you specific legal rights and you may also have other rights which may vary from state to state. Some states do not allow limitation on how long an implied warranty lasts, when an action may be brought, or the exclusion or limitation of incidental or consequential damages, so the above provisions may not apply to you.



ATTENTION CANADIAN CONSUMERS:

Canadian consumers are requested to complete the special Canadian "Warranty Registration Form" enclosed, and forward this completed form with a copy of bill of sale to TOSHIBA OF CANADA to "Register and Validate" their warranty.

Products purchased in the U.S.A. and used in Canada are not covered by these warranties.

Products Purchased in Canada and used in the U.S.A. are not covered by these warranties.

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TOSHIBA AMERICA CONSUMER PRODUCTS, INC.

HEAD OFFICE/82 TOTOWA ROAD, WAYNE, NEW JERSEY 07470
FACTORY SERVICE CENTER:1420B TOSHIBA DRIVE, LEBANON, TN. 37087

TOSHIBA HAWAII, INC.

HEAD OFFICE/327 KAMAKEE STREET, HONOLULU, HAWAII 96814, U.S.A. TEL: (808) 521-5377

TOSHIBA OF CANADA LTD.

HEAD OFFICE/191 McNABB STREET MARKHAM, ONTARIO L3R 8H2, CANADA TEL: (905) 470-5400
SERVICE CENTERS/TORONTO: 191 McNABB STREET MARKHAM, ONTARIO L3R 8H2, CANADA TEL: (905) 470- 5400
MONTREAL: 1643, NORTH SERVICE RD., TRANS-CANADA HIGHWAY, DORVAL QUEBEC, H9P 1J1, CANADA
TEL: (514) 856-4100
VANCOUVER: 222171 FRASERWOOD WAY, RICHMOND, B.C. V6W 1J5, CANADA TEL: (604) 303-2500

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